Chemical:
MRID:
PC Code:
Plot:
Guideline:

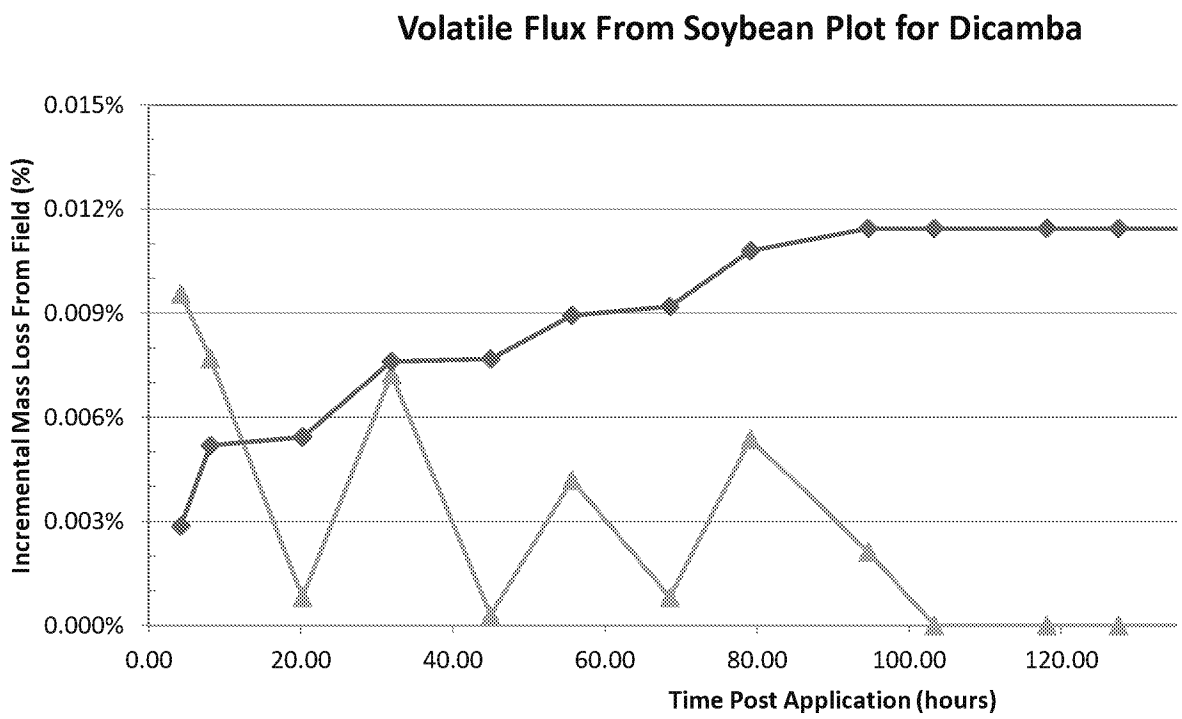
Application Rate (lbs. a.i./A)
Area of the field (acres)

Period
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

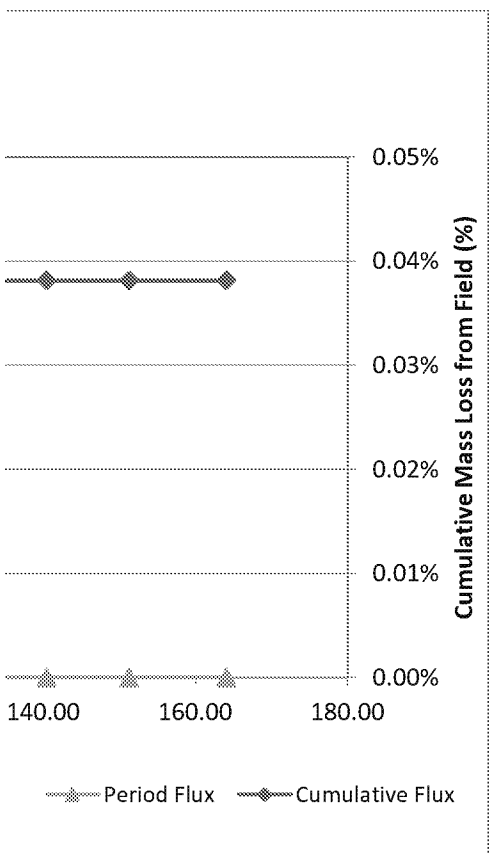
Dicamba DGA
51017502
128931
Soybean
835.8100

0.5
18.6 Area of the field from p. 13 of the study report.

Date/Time	Sampling Period (hrs.)	Time Post Application (hrs.)	Flux ($\mu g/m^2 \cdot s$)
8/8, 12:05 - 15:48	3.72	4.22	0.000401
8/8, 15:55 - 19:41	3.77	8.10	0.000318
8/8-9, 19:45 - 7:50	12.08	20.25	0.000011
8/9, 7:53 - 19:29	11.60	31.90	0.000097
8/9-10, 19:33 - 8:31	12.97	44.93	0.000004
8/10, 8:34 - 19:15	10.68	55.67	0.000061
8/10-11, 19:32 - 8:05	12.55	68.50	0.000010
8/11, 8:06 - 18:44	10.63	79.15	0.000079
8/11-12, 18:47 - 10:11	15.40	94.60	0.000022
8/12, 10:12 - 18:54	8.70	103.32	NC
8/12-13, 18:58 - 9:44	14.77	118.15	0.000000
8/13, 9:48 - 19:05	9.28	127.50	0.000000
8/13-14, 19:08 - 8:02	12.90	140.45	0.000000
8/14, 8:06 - 18:53	10.78	151.30	0.000000
8/14-15, 18:55 - 7:38	12.72	164.05	0.000000



Period fraction of applied	Cumulative fraction of applied
0.00010	0.00010
0.00008	0.00017
0.00001	0.00018
0.00007	0.00025
0.00000	0.00026
0.00004	0.00030
0.00001	0.00031
0.00005	0.00036
0.00002	0.00038
0.00000	0.00038
0.00000	0.00038
0.00000	0.00038
0.00000	0.00038
0.00000	0.00038
0.00000	0.00038



Date and time from Appendix D, Table 2, pp. 543-545 of the study report.
Sampling period and time post application calculated in accompanying spreadsheet 128931_51017502_DER-FATE_835.

Chemical:	Dicamba DGA	Raw Air Conc.		
MRID:	51017502			
PC Code:	128931			
Plot:	Soybean			
Guideline:	835.8100			
		DICAMBA CONCENTRATION IN AIR TUBES (µg/m^3)		
Time Period Following Application	**Sample ID**	**Height of Measurement (m)**	**Measured Concentration (ng)**	**Sample ID (Back-Half)**
0 - 6	19-058-A_PUF_I_0.15 m_6HR	0.15 m	13.062	NA
	19-058-A_PUF_I_0.33 m_6HR	0.33 m	12.861	NA
	19-058-A_PUF_I_0.55 m_6HR	0.55 m	8.991	NA
	19-058-A_PUF_I_0.9 m_6HR	0.9 m	8.085	NA
	19-058-A_PUF_I_1.5 m_6HR	1.5 m	5.011	NA
	19-058-A_PUF_I_1.5 m_6HR	1.5 m	4.623	NA
6 - 12	19-058-A_PUF_I_0.15 m_12HR	0.15 m	13.982	NA
	19-058-A_PUF_I_0.33 m_12HR	0.33 m	8.486	NA
	19-058-A_PUF_I_0.55 m_12HR	0.55 m	6.643	NA
	19-058-A_PUF_I_0.9 m_12HR	0.9 m	7.010	NA
	19-058-A_PUF_I_1.5 m_12HR	1.5 m	4.845	NA
	19-058-A_PUF_I_1.5 m_12HR	1.5 m	4.529	NA
12 - 24	19-058-A_PUF_I_0.15 m_24HR	0.15 m	2.623	NA
	19-058-A_PUF_I_0.33 m_24HR	0.33 m	2.103	NA
	19-058-A_PUF_I_0.55 m_24HR	0.55 m	1.955	NA
	19-058-A_PUF_I_0.9 m_24HR	0.9 m	1.571	NA
	19-058-A_PUF_I_1.5 m_24HR	1.5 m	0.741	NA
	19-058-A_PUF_I_1.5 m_24HR	1.5 m	1.330	NA
24 - 36	19-058-A_PUF_I_0.15 m_36HR	0.15 m	20.761	NA
	19-058-A_PUF_I_0.33 m_36HR	0.33 m	14.908	NA
	19-058-A_PUF_I_0.55 m_36HR	0.55 m	10.346	NA
	19-058-A_PUF_I_0.9 m_36HR	0.9 m	9.124	NA
	19-058-A_PUF_I_1.5 m_36HR	1.5 m	6.400	NA
	19-058-A_PUF_I_1.5 m_36HR	1.5 m	6.715	NA
36 - 48	19-058-A_PUF_I_0.15 m_48HR	0.15 m	2.683	NA
	19-058-A_PUF_I_0.33 m_48HR	0.33 m	1.868	NA
	19-058-A_PUF_I_0.55 m_48HR	0.55 m	1.435	NA
	19-058-A_PUF_I_0.9 m_48HR	0.9 m	1.310	NA
	19-058-A_PUF_I_1.5 m_48HR	1.5 m	0.960	NA

		Raw Air Conc.					
Applicable for specific sampling methods							
Measured Concentration (Back-Half) (µg)	**Sample Collection Start Time (Local Time)**	**Sample Collection Stop Time (Local Time)**	**Start Flow Rate (L/min)**	**End Flow Rate (L/min)**	**Sampling Duration (Minutes)**	**Measured Air Concentration (µg/m^3)**	**Measured Air Concentration (Back-Half) (µg/m^3)**
0.000	12:05	15:48	2.997	2.415	223	0.0216	0.0000
0.000	12:05	15:48	3.002	3.128	223	0.0188	0.0000
0.000	12:05	15:48	3.005	2.997	223	0.0134	0.0000
0.000	12:05	15:46	3.001	3.035	221	0.0121	0.0000
0.000	12:05	15:45	3.004	3.002	220	0.0076	0.0000
0.000	12:05	15:45	2.994	2.967	220	0.0071	0.0000
0.000	16:04	19:41	3.006	4.241	217	0.0178	0.0000
0.000	16:02	19:41	3.013	2.996	219	0.0129	0.0000
0.000	16:00	19:40	3.004	3.047	220	0.0100	0.0000
0.000	15:58	19:40	3.013	3.097	222	0.0103	0.0000
0.000	15:55	19:38	3.001	3.035	223	0.0072	0.0000
0.000	15:56	19:39	3.015	3.043	223	0.0067	0.0000
0.000	19:47	7:50	2.998	2.928	723	0.0012	0.0000
0.000	19:46	7:50	3.001	3.078	724	0.0010	0.0000
0.000	19:45	7:50	3.005	3.034	725	0.0009	0.0000
0.000	19:45	7:50	3.010	2.945	725	0.0007	0.0000
0.000	19:45	7:50	3.006	2.967	725	0.0003	0.0000
0.000	19:45	7:50	3.010	2.999	725	0.0006	0.0000
0.000	7:54	19:29	3.014	3.065	695	0.0098	0.0000
0.000	7:54	19:29	3.007	2.959	695	0.0072	0.0000
0.000	7:54	19:29	2.996	2.967	695	0.0050	0.0000
0.000	7:54	19:29	3.004	3.064	695	0.0043	0.0000
0.000	7:53	19:28	2.999	3.001	695	0.0031	0.0000
0.000	7:54	19:28	2.995	3.001	694	0.0032	0.0000
0.000	19:34	8:31	3.000	3.248	777	0.0011	0.0000
0.000	19:34	8:30	2.999	3.060	776	0.0008	0.0000
0.000	19:33	8:30	2.998	3.106	777	0.0006	0.0000
0.000	19:33	8:30	3.000	2.951	777	0.0006	0.0000
0.000	19:33	8:29	3.003	3.028	776	0.0004	0.0000

Raw Air Conc.

Percent of Front-Half Concentration	**Measured Air Concentration (Total) ($\mu g/m^3$)**
0.00%	0.0216
0.00%	0.0188
0.00%	0.0134
0.00%	0.0121
0.00%	0.0076
0.00%	0.0071
0.00%	0.0178
0.00%	0.0129
0.00%	0.0100
0.00%	0.0103
0.00%	0.0072
0.00%	0.0067
0.00%	0.0012
0.00%	0.0010
0.00%	0.0009
0.00%	0.0007
0.00%	0.0003
0.00%	0.0006
0.00%	0.0098
0.00%	0.0072
0.00%	0.0050
0.00%	0.0043
0.00%	0.0031
0.00%	0.0032
0.00%	0.0011
0.00%	0.0008
0.00%	0.0006
0.00%	0.0006
0.00%	0.0004

	19-058-A_PUF_I_1.5 m_48HR	1.5 m	0.798	NA
48 - 60	19-058-A_PUF_I_0.15 m_60HR	0.15 m	14.895	NA
	19-058-A_PUF_I_0.33 m_60HR	0.33 m	10.139	NA
	19-058-A_PUF_I_0.55 m_60HR	0.55 m	10.040	NA
	19-058-A_PUF_I_0.9 m_60HR	0.9 m	6.338	NA
	19-058-A_PUF_I_1.5 m_60HR	1.5 m	4.484	NA
	19-058-A_PUF_I_1.5 m_60HR	1.5 m	4.503	NA
60 - 72	19-058-A_PUF_I_0.15 m_72HR	0.15 m	1.747	NA
	19-058-A_PUF_I_0.33 m_72HR	0.33 m	1.862	NA
	19-058-A_PUF_I_0.55 m_72HR	0.55 m	1.974	NA
	19-058-A_PUF_I_0.9 m_72HR	0.9 m	0.839	NA
	19-058-A_PUF_I_1.5 m_72HR	1.5 m	1.282	NA
	19-058-A_PUF_I_1.5 m_72HR	1.5 m	0.858	NA
72 - 84	19-058-A_PUF_I_0.15 m_84HR	0.15 m	8.592	NA
	19-058-A_PUF_I_0.33 m_84HR	0.33 m	7.335	NA
	19-058-A_PUF_I_0.55 m_84HR	0.55 m	4.751	NA
	19-058-A_PUF_I_0.9 m_84HR	0.9 m	4.606	NA
	19-058-A_PUF_I_1.5 m_84HR	1.5 m	3.322	NA
	19-058-A_PUF_I_1.5 m_84HR	1.5 m	3.486	NA
84 - 96	19-058-A_PUF_I_0.15 m_96HR	0.15 m	2.321	NA
	19-058-A_PUF_I_0.33 m_96HR	0.33 m	1.990	NA
	19-058-A_PUF_I_0.55 m_96HR	0.55 m	1.921	NA
	19-058-A_PUF_I_0.9 m_96HR	0.9 m	1.434	NA
	19-058-A_PUF_I_1.5 m_96HR	1.5 m	1.194	NA
	19-058-A_PUF_I_1.5 m_96HR	1.5 m	0.918	NA
96 - 108	19-058-A_PUF_I_0.15 m_108HR	0.15 m	0.382	NA
	19-058-A_PUF_I_0.33 m_108HR	0.33 m	0.000	NA
	19-058-A_PUF_I_0.55 m_108HR	0.55 m	0.000	NA
	19-058-A_PUF_I_0.9 m_108HR	0.9 m	0.000	NA
	19-058-A_PUF_I_1.5 m_108HR	1.5 m	0.000	NA
	19-058-A_PUF_I_1.5 m_108HR	1.5 m	0.000	NA
108 - 120	19-058-A_PUF_I_0.15 m_120HR	0.15 m	11.236	NA
	19-058-A_PUF_I_0.33 m_120HR	0.33 m	4.605	NA
	19-058-A_PUF_I_0.55 m_120HR	0.55 m	1.936	NA
	19-058-A_PUF_I_0.9 m_120HR	0.9 m	0.317	NA
	19-058-A_PUF_I_1.5 m_120HR	1.5 m	0.000	NA
	19-058-A_PUF_I_1.5 m_120HR	1.5 m	0.000	NA
120 - 132	19-058-A_PUF_I_0.15 m_132HR	0.15 m	0.000	NA
	19-058-A_PUF_I_0.33 m_132HR	0.33 m	0.000	NA
	19-058-A_PUF_I_0.55 m_132HR	0.55 m	0.000	NA
	19-058-A_PUF_I_0.9 m_132HR	0.9 m	0.000	NA
	19-058-A_PUF_I_1.5 m_132HR	1.5 m	0.000	NA
	19-058-A_PUF_I_1.5 m_132HR	1.5 m	0.000	NA

0.000	19:33	8:30	3.001	3.017	777	0.0003	0.0000
0.000	8:34	19:15	3.002	3.190	641	0.0075	0.0000
0.000	8:34	19:14	2.995	3.020	640	0.0053	0.0000
0.000	8:34	19:13	3.004	2.972	639	0.0053	0.0000
0.000	8:34	19:12	2.996	3.083	638	0.0033	0.0000
0.000	8:34	19:10	3.003	2.989	636	0.0024	0.0000
0.000	8:34	19:11	3.006	2.974	637	0.0024	0.0000
0.000	19:33	8:05	3.002	2.939	752	0.0008	0.0000
0.000	19:33	8:04	2.996	3.009	751	0.0008	0.0000
0.000	19:33	8:04	3.005	3.041	751	0.0009	0.0000
0.000	19:33	8:04	3.008	2.981	751	0.0004	0.0000
0.000	19:32	8:04	2.994	2.970	752	0.0006	0.0000
0.000	19:32	8:04	2.994	2.983	752	0.0004	0.0000
0.000	8:07	18:44	3.007	3.006	637	0.0045	0.0000
0.000	8:06	18:44	3.009	2.995	638	0.0038	0.0000
0.000	8:06	18:44	3.012	2.978	638	0.0025	0.0000
0.000	8:06	18:44	3.008	3.053	638	0.0024	0.0000
0.000	8:06	18:43	2.998	3.011	637	0.0017	0.0000
0.000	8:06	18:44	2.998	2.996	638	0.0018	0.0000
0.000	18:48	10:11	2.999	2.937	923	0.0008	0.0000
0.000	18:47	10:11	3.001	2.943	924	0.0007	0.0000
0.000	18:47	10:11	2.995	2.933	924	0.0007	0.0000
0.000	18:47	10:11	2.999	2.930	924	0.0005	0.0000
0.000	18:47	10:10	2.995	2.927	923	0.0004	0.0000
0.000	18:47	10:11	3.007	2.956	924	0.0003	0.0000
0.000	10:13	18:54	2.997	3.095	521	0.0002	0.0000
0.000	10:13	18:54	2.999	3.055	521	0.0000	0.0000
0.000	10:13	18:53	3.002	3.049	520	0.0000	0.0000
0.000	10:12	18:53	3.003	3.079	521	0.0000	0.0000
0.000	10:12	18:53	3.006	3.015	521	0.0000	0.0000
0.000	10:12	18:53	3.001	3.000	521	0.0000	0.0000
0.000	18:59	9:44	3.004	2.799	885	0.0044	0.0000
0.000	18:59	9:44	3.000	2.988	885	0.0017	0.0000
0.000	18:58	9:44	3.000	2.990	886	0.0007	0.0000
0.000	18:58	9:44	2.997	2.947	886	0.0001	0.0000
0.000	18:58	9:44	3.004	3.016	886	0.0000	0.0000
0.000	18:58	9:44	3.012	3.005	886	0.0000	0.0000
0.000	9:49	19:05	2.947	3.111	556	0.0000	0.0000
0.000	9:49	19:04	2.998	2.949	555	0.0000	0.0000
0.000	9:49	19:04	3.008	2.988	555	0.0000	0.0000
0.000	9:49	19:04	2.993	3.002	555	0.0000	0.0000
0.000	9:48	19:04	3.005	2.992	556	0.0000	0.0000
0.000	9:48	19:04	3.000	2.987	556	0.0000	0.0000

0.00%	0.0003
0.00%	0.0075
0.00%	0.0053
0.00%	0.0053
0.00%	0.0033
0.00%	0.0024
0.00%	0.0024
0.00%	0.0008
0.00%	0.0008
0.00%	0.0009
0.00%	0.0004
0.00%	0.0006
0.00%	0.0004
0.00%	0.0045
0.00%	0.0038
0.00%	0.0025
0.00%	0.0024
0.00%	0.0017
0.00%	0.0018
0.00%	0.0008
0.00%	0.0007
0.00%	0.0007
0.00%	0.0005
0.00%	0.0004
0.00%	0.0003
0.00%	0.0002
0.00%	0.0000
0.00%	0.0000
0.00%	0.0000
0.00%	0.0000
0.00%	0.0000
0.00%	0.0044
0.00%	0.0017
0.00%	0.0007
0.00%	0.0001
0.00%	0.0000
0.00%	0.0000
0.00%	0.0000
0.00%	0.0000
0.00%	0.0000
0.00%	0.0000
0.00%	0.0000
0.00%	0.0000

Raw Air Conc.

132 - 144	19-058-A_PUF_I_0.15 m_144HR	0.15 m	0.000	NA
	19-058-A_PUF_I_0.33 m_144HR	0.33 m	0.000	NA
	19-058-A_PUF_I_0.55 m_144HR	0.55 m	0.000	NA
	19-058-A_PUF_I_0.9 m_144HR	0.9 m	0.000	NA
	19-058-A_PUF_I_1.5 m_144HR	1.5 m	0.000	NA
	19-058-A_PUF_I_1.5 m_144HR	1.5 m	0.000	NA
144 - 156	19-058-A_PUF_I_0.15 m_156HR	0.15 m	0.000	NA
	19-058-A_PUF_I_0.33 m_156HR	0.33 m	0.000	NA
	19-058-A_PUF_I_0.55 m_156HR	0.55 m	0.000	NA
	19-058-A_PUF_I_0.9 m_156HR	0.9 m	0.000	NA
	19-058-A_PUF_I_1.5 m_156HR	1.5 m	0.000	NA
	19-058-A_PUF_I_1.5 m_156HR	1.5 m	0.000	NA
156 - 168	19-058-A_PUF_I_0.15 m_168HR	0.15 m	0.000	NA
	19-058-A_PUF_I_0.33 m_168HR	0.33 m	0.000	NA
	19-058-A_PUF_I_0.55 m_168HR	0.55 m	0.000	NA
	19-058-A_PUF_I_0.9 m_168HR	0.9 m	0.000	NA
	19-058-A_PUF_I_1.5 m_168HR	1.5 m	0.000	NA
	19-058-A_PUF_I_1.5 m_168HR	1.5 m	0.000	NA
Measured concentrations from Appendix C, pp. 376-379 of the study report.				
Sample start times, end times, and flow rates from Appendix B, pp. 199-201 of the study report.				

Raw Air Conc.

0.000	19:09	8:02	Raw Air Cond 3.007	3.025	773	0.0000	0.0000
0.000	19:09	8:02	3.000	3.051	773	0.0000	0.0000
0.000	19:08	8:02	3.001	3.041	774	0.0000	0.0000
0.000	19:08	8:01	2.998	2.994	773	0.0000	0.0000
0.000	19:08	8:01	2.991	2.976	773	0.0000	0.0000
0.000	19:08	8:01	2.991	2.982	773	0.0000	0.0000
0.000	8:06	18:53	2.990	3.151	647	0.0000	0.0000
0.000	8:06	18:53	2.999	3.075	647	0.0000	0.0000
0.000	8:06	18:53	3.013	3.043	647	0.0000	0.0000
0.000	8:06	18:53	2.993	3.080	647	0.0000	0.0000
0.000	8:06	18:53	2.998	3.095	647	0.0000	0.0000
0.000	8:06	18:53	2.991	3.030	647	0.0000	0.0000
0.000	18:55	7:38	3.003	2.892	763	0.0000	0.0000
0.000	18:55	7:38	3.019	2.985	763	0.0000	0.0000
0.000	18:55	7:38	3.008	2.983	763	0.0000	0.0000
0.000	18:55	7:38	2.990	2.889	763	0.0000	0.0000
0.000	18:55	7:38	3.004	2.901	763	0.0000	0.0000
0.000	18:55	7:38	3.009	2.946	763	0.0000	0.0000

0.00%	0.0000
0.00%	0.0000
0.00%	0.0000
0.00%	0.0000
0.00%	0.0000
0.00%	0.0000
0.00%	0.0000
0.00%	0.0000
0.00%	0.0000
0.00%	0.0000
0.00%	0.0000
0.00%	0.0000
0.00%	0.0000
0.00%	0.0000
0.00%	0.0000
0.00%	0.0000
0.00%	0.0000

Raw Air Conc.

Chemical:	Dicamba DGA
MRID:	51017502
PC Code:	128931
Plot:	Soybean
Guideline:	835.8100

Plot Soybean	
Sample Periods	6
Day	
Hours	
DTG	
Fortification Level (µg)	**Perce**
0	NA
0.003	90%
0.01	94%
0.06	94%

NA indicate not applicable.
Data from Appendix C, Table 8, p. 263 of the study report.

PUF Sample Results (ng/PUF; Appendix C, Table 8, p. 263 of the study report).

0	ND
0.003	2.69
0.01	9.43
0.03	28.2

Reviewer calculated percent recoveries.

0	NA
0.003	90%
0.01	94%
0.03	94%

6	6	12	12	12
ent Recovery (%)				
NA	NA	NA	NA	NA
97%	77%	108%	96%	110%
96%	109%	97%	94%	103%
100%	96%	94%	102%	101%

ND	ND	ND	ND	ND
2.92	2.32	3.24	2.89	3.29
9.6	10.9	9.65	9.43	10.3
29.9	28.9	28.3	30.6	30.4

NA	NA	NA	NA	NA
97%	77%	108%	96%	110%
96%	109%	97%	94%	103%
100%	96%	94%	102%	101%

Chemical: Dicamba DGA
MRID: 51017502
PC Code: 128931
Plot: Soybean
Guideline: 835.8100

Field Dimensions	
Length (m)	274.0
Width (m)	274.0
Offset Angle from Due North (degrees)	45

Sampler Heights (m)			
Julian Date	Local Time (0000 - 2300)	Wind Speed (m/s)	Flow Vector Wind Direction (Degrees)
8/8/2019	1200	1.96	236.9331132
8/8/2019	1201	1.434833333	228.6957153
8/8/2019	1202	1.553166667	239.5653796
8/8/2019	1203	1.956666667	245.7601244
8/8/2019	1204	1.835666667	236.1722079
8/8/2019	1205	1.839833333	239.0368005
8/8/2019	1206	1.826	267.7408981
8/8/2019	1207	1.9785	247.947697
8/8/2019	1208	1.867833333	245.4982046
8/8/2019	1209	1.093833333	241.5191923
8/8/2019	1210	1.813	243.8932265
8/8/2019	1211	2.174166667	247.3865968
8/8/2019	1212	1.824	254.275266
8/8/2019	1213	1.050166667	254.9819292
8/8/2019	1214	1.2665	239.9193314
8/8/2019	1215	1.5865	248.8932633
8/8/2019	1216	1.565	277.6806348
8/8/2019	1217	1.3375	277.501946
8/8/2019	1218	1.257333333	265.2334388
8/8/2019	1219	1.9025	237.517205
8/8/2019	1220	1.963833333	241.3527842
8/8/2019	1221	1.404333333	274.9986906
8/8/2019	1222	1.972833333	301.5798617
8/8/2019	1223	1.276610169	295.764161
8/8/2019	1224	1.449166667	296.2934719
8/8/2019	1225	1.463666667	295.3675713
8/8/2019	1226	1.7945	297.773215
8/8/2019	1227	0.990333333	261.2323848
8/8/2019	1228	1.665666667	295.761338
8/8/2019	1229	1.302833333	281.4141353
8/8/2019	1230	1.075333333	273.9623105
8/8/2019	1231	1.442833333	301.5636213
8/8/2019	1232	1.354666667	286.3367579
8/8/2019	1233	1.2415	261.8919395
8/8/2019	1234	1.174833333	241.3129354
8/8/2019	1235	1.661833333	236.4553436

Assume fields oriented North-South along length of field!
Assume fields oriented East-West along width of field!

0.53	0.75		
		Flow Vector	
Fetch (m)	Wind Speed (m/s)	Wind Direction (Degrees)	Fetch (m)
140.0260112	2.065833333	238.1326093	140.6792096
137.2854932	1.489833333	230.2976612	137.5877103
141.5492069	1.9915	241.2160185	142.6762833
146.5126894	2.398666667	247.3207305	148.0965222
139.6464032	2.2745	235.0642578	139.1410488
141.2167109	2.107	238.0849441	140.6519589
186.5391362	2.275	266.8498077	183.9182188
148.7737859	2.232333333	248.8677476	149.8116088
146.2607693	2.159666667	244.9705961	145.7651469
142.8981878	1.335	240.7766832	142.3629964
144.8013699	2.140666667	245.2427159	146.0188031
148.1665494	2.617833333	247.6259134	148.423196
157.0595782	2.080333333	256.076608	159.9574263
158.1651807	1.1885	255.0479536	158.2705075
141.7794903	1.453	240.2513839	142.0011424
149.8411491	1.770666667	248.6614002	149.5742307
172.2688368	1.884915254	276.1591829	175.8910212
172.6802205	1.666333333	276.4354224	175.2128709
179.4557961	1.540333333	267.0161228	184.3984124
140.3356421	2.174666667	237.1311547	140.1292097
142.7758071	2.198	245.2862824	146.0598017
178.8442284	1.787833333	277.2441021	173.2802929
140.8458866	2.293166667	302.888542	140.1188641
145.1009149	1.435	296.7674688	144.2417187
144.6408341	1.738666667	296.876667	144.1514798
145.4557129	1.8115	294.604648	146.1629146
143.4344676	2.211833333	296.359765	144.5842855
169.8431973	1.145166667	255.6979302	159.3262774
145.1034098	1.943833333	296.2282204	144.6967266
164.4543868	1.590666667	281.6797964	163.9513543
181.6306797	1.334833333	277.683024	172.2633609
140.8554186	1.711166667	301.1144512	141.1240626
156.1335287	1.630333333	285.4351534	157.5078677
171.2994372	1.505666667	264.0577347	176.4301149
142.746711	1.346333333	240.4121461	142.1104204
139.7845367	1.902	234.9699782	139.1006132

Length, width and estimated offset angle from Appendix B, Figure 2, p. 129 of the study report. Offset angle estimated by
Wind speed and direction from spreadsheet MRID51017502_IL_Flux_Met_Data.xlsx accompanying the study report.
One minute solar radiation data are not reported.

1.1
Wind Speed (m/s)
INSERT 1-MINUTE RAW METEOROLOGICAL DATA BELOW ACCORDING TO SPECIFIED FORMAT:
2.419666667
1.8215
2.106166667
2.530666667
2.557
2.398166667
2.325666667
2.575666667
2.436
1.517333333
2.407
2.908833333
2.207
1.405
1.63
2.033898305
1.953
1.507666667
1.557833333
2.4825
2.374833333
1.710833333
2.638833333
1.6725
1.917666667
1.927666667
2.258333333
1.21
2.177333333
1.739833333
1.305
1.913
1.648333333
1.487
1.521166667
2.1505

y reviewer.

		1.7			
Flow Vector Wind Direction (Degrees)	Fetch (m)	Wind Speed (m/s)	Flow Vector Wind Direction (Degrees)	Fetch (m)	Average Fetch (m)
239.056326	141.2287518	2.491666667	243.0796638	144.1155706	141.5123858
229.8714673	137.496678	1.937166667	233.2227539	138.4230568	137.6982346
238.9246975	141.1479369	2.487333333	242.9929502	144.0445671	142.3544986
246.8504033	147.6040564	2.925	250.8664219	152.2537537	148.6167554
236.2816013	139.6993363	2.835	237.6982992	140.4348871	139.7304189
237.4160371	140.28087	2.487666667	239.0388704	141.2179865	140.8418816
264.5605937	177.7024974	2.836333333	268.3995088	188.5544524	184.1785762
246.6224788	147.370144	2.780333333	251.9000079	153.6223246	149.8944658
244.3392381	145.192581	2.776666667	246.811506	147.5639194	146.1956041
240.3074438	142.039103	1.528813559	243.9318859	144.8348487	143.033784
242.7307685	143.8323117	2.585166667	246.6616765	147.4101526	145.5156593
247.0697534	147.8320837	3.206166667	251.5788258	153.1890752	149.4027261
254.3210718	157.1300515	2.4745	259.2558891	165.7528287	159.9749712
254.4424261	157.3175506	1.46	260.4015441	168.0750241	160.4570657
241.1925839	142.6593255	1.712166667	249.0733228	150.0507875	144.1226864
248.3763894	149.2507711	2.227666667	251.9240913	153.6551048	150.5803139
276.9156953	174.0557748	2.580666667	278.7632971	169.8525776	173.0170526
275.2376634	178.2220153	1.859833333	278.0083536	171.5237423	174.4097122
263.4371136	174.9030822	1.9	267.7001005	186.4165207	181.2934529
236.3394162	139.7275336	2.6775	239.5254649	141.5236237	140.4290023
243.8043589	144.7247195	2.782166667	247.7201004	148.5251587	145.5213717
278.8814042	169.5967261	2.141833333	283.3154891	160.9959407	170.679297
304.1607226	139.488678	2.891	307.2827004	138.2521917	139.6764051
300.9225951	141.2417712	1.8385	300.9489366	141.2255046	142.9524774
298.6883644	142.7457633	2.0405	301.105053	141.1297873	143.1669661
297.2308589	143.86315	2.208333333	297.0541789	144.0061441	144.8719804
296.032657	144.8656259	2.671166667	295.1745265	145.6315725	144.6289879
255.5039054	159.0075027	1.308333333	265.2801307	179.5796728	166.9391626
296.0999801	144.8072471	2.416166667	296.4292581	144.5252623	144.7831614
286.4810093	155.919434	2.0365	287.5085695	154.4393039	159.6911197
278.4353431	170.5708921	1.643833333	278.2619172	170.9554771	173.8551025
301.8569781	140.685177	2.093166667	301.3240089	140.9975225	140.9155452
287.9775501	153.7894096	2.040333333	284.3216778	159.2939213	156.6811818
263.2570041	174.4686758	1.740833333	268.5905119	189.1517858	177.8375034
238.6824986	141.0014203	1.561333333	242.9236021	143.9880704	142.4616555
235.0444219	139.1325081	2.241333333	236.5749733	139.8440095	139.4654169

Fetch Requirement Satisfied?	Mean Solar Radiation (W/m^2)	Standard Deviation Wind Direction 10 m
Yes		0
Yes		0
Yes		0
Yes		0
Yes		0
Yes		0
Yes		0
Yes		0
Yes		0.026
Yes		5.784
Yes		6.29
Yes		0.931
Yes		1.328
Yes		0.332
Yes		
Yes		0
Yes		2.533
Yes		17.28
Yes		0
Yes		12.12
Yes		4.996
Yes		7.12
Yes		12.14
Yes		4.421
Yes		0.396
Yes		2.785
Yes		0
Yes		0
Yes		0
Yes		0
Yes		0
Yes		0
Yes		0
Yes		0
Yes		0
Yes		0

8/8/2019	1236	1.284666667	251.5551125
8/8/2019	1237	2.218666667	227.1088617
8/8/2019	1238	1.532666667	237.1033912
8/8/2019	1239	1.5725	233.8922072
8/8/2019	1240	1.332666667	257.0923036
8/8/2019	1241	1.373666667	242.1332583
8/8/2019	1242	2.1425	260.4508017
8/8/2019	1243	1.970333333	276.5572593
8/8/2019	1244	1.549333333	261.6547232
8/8/2019	1245	1.416610169	251.0027607
8/8/2019	1246	1.6265	233.1132846
8/8/2019	1247	1.714333333	237.1109873
8/8/2019	1248	1.912833333	259.5807612
8/8/2019	1249	1.632333333	262.5815336
8/8/2019	1250	1.409333333	238.5436781
8/8/2019	1251	1.037833333	237.5621429
8/8/2019	1252	0.459	259.211247
8/8/2019	1253	0.801166667	303.6876455
8/8/2019	1254	1.562166667	270.4509981
8/8/2019	1255	2.021833333	290.3631914
8/8/2019	1256	2.463833333	286.0306598
8/8/2019	1257	2.218166667	278.5144447
8/8/2019	1258	1.340833333	284.9713363
8/8/2019	1259	0.963166667	272.8425046
8/8/2019	1300	1.580166667	301.1787863
8/8/2019	1301	1.678833333	314.1874606
8/8/2019	1302	2.017833333	289.8019753
8/8/2019	1303	2.195333333	284.0532793
8/8/2019	1304	2.391833333	288.767009
8/8/2019	1305	1.6985	274.055071
8/8/2019	1306	1.98	259.490165
8/8/2019	1307	1.550333333	260.8318719
8/8/2019	1308	2.12	249.1965844
8/8/2019	1309	1.7645	266.2561406
8/8/2019	1310	1.897166667	243.9867814
8/8/2019	1311	2.234833333	244.2702155
8/8/2019	1312	2.048	259.058539
8/8/2019	1313	2.121	266.0691701
8/8/2019	1314	2.215	281.6965498
8/8/2019	1315	1.928666667	229.5348248
8/8/2019	1316	1.677666667	254.683027
8/8/2019	1317	1.543833333	234.6479413
8/8/2019	1318	1.795833333	212.7020011
8/8/2019	1319	1.822033898	235.9497027
8/8/2019	1320	1.608833333	237.8090194
8/8/2019	1321	2.205666667	244.3218336
8/8/2019	1322	1.937166667	263.4083676
8/8/2019	1323	2.1145	256.3121848
8/8/2019	1324	1.6055	266.473377
8/8/2019	1325	1.725833333	277.303564
8/8/2019	1326	2.1465	262.0705694

153.1573752	1.6295	253.2596102	155.5384159
137.092851	2.523666667	226.0157714	137.0215325
140.1146322	1.6915	238.754763	141.0448405
138.6666485	1.791833333	229.7783974	137.4778264
161.7104393	1.549166667	260.059012	167.3669093
143.3620984	1.7085	240.7693223	142.3578303
168.1778424	2.302666667	259.3019845	165.8437477
174.916717	2.250166667	275.2276858	178.2478456
170.7702095	1.652	261.40066	170.2102365
152.4300482	1.761166667	250.8784254	152.2692241
138.3851018	1.815254237	231.2361744	137.8155124
140.1186171	2.087333333	237.4673099	140.308569
166.3980425	2.180333333	258.3064025	163.9254021
172.8736615	1.901666667	259.3186576	165.8766848
140.9187132	1.581333333	239.2414759	141.3438469
140.3601255	1.259666667	239.0214005	141.2072272
165.6649733	0.460333333	264.4207478	177.3454345
139.714316	0.951833333	300.0047407	141.8296928
192.2400306	1.715333333	270.4815605	192.1391692
150.7202962	2.338666667	288.8294278	152.6487884
156.5930812	2.716166667	285.8167486	156.9185054
170.39657	2.404166667	277.8719709	171.8323518
158.2396986	1.528833333	284.9098315	158.3380353
184.8097938	0.972333333	272.5372215	185.7083037
141.0849894	1.673666667	300.2087655	141.6954387
137.0137775	1.950166667	313.3913531	137.0540144
151.4076941	2.3275	288.148863	153.5559322
159.7395916	2.514	282.9848697	161.5741086
152.7306454	2.793333333	286.1928912	156.3486271
181.3753189	1.873833333	274.4425897	180.3213263
166.2170714	2.193666667	258.9834285	165.2196338
168.9817787	1.682333333	260.1510832	167.5560725
150.1954923	2.435833333	249.3877899	150.4218936
182.2367971	2.1255	263.3627235	174.7231894
144.8825279	2.197666667	243.8687554	144.7802201
145.1313253	2.737	243.5667693	144.5218961
165.3659062	2.190333333	259.1369607	165.5192074
181.7176148	2.317	265.5471469	180.2936897
163.9198526	2.4955	280.3793856	166.4779083
137.4302306	2.482333333	231.7345136	137.9518415
157.6927142	1.781	254.3640513	157.1963254
138.9655072	1.735333333	234.4096805	138.8685383
140.2175706	2.161833333	215.329571	138.9747905
139.5404302	2.161	237.1366224	140.1320848
140.496326	1.847966102	239.059299	141.2305867
145.1771103	2.659333333	246.0379865	146.7842527
174.8334888	2.131833333	262.8871646	173.5887443
160.35614	2.514166667	255.4719748	158.9553389
182.8462137	1.8365	264.1324098	176.617053
173.141228	1.899333333	277.2189729	173.3391865
171.702077	2.412166667	257.9367508	163.2368485

1.742
2.986333333
2.014166667
2.101166667
1.606166667
1.834333333
2.6945
2.525333333
1.987666667
1.978474576
2.056166667
2.281
2.503666667
2.121166667
1.7825
1.364333333
0.569833333
1.138666667
2.027166667
2.571833333
3.059666667
2.855833333
1.660666667
1.15
2.009333333
2.158833333
2.679666667
2.9115
2.982
2.1465
2.510666667
2.068
2.699833333
2.362666667
2.3315
3.026166667
2.658166667
2.748666667
2.783
2.692333333
2.103166667
2.010166667
2.411166667
2.473220339
2.078333333
2.934333333
2.436833333
2.812333333
2.109166667
2.2515
2.762166667

251.3426182	152.8750644	2.018833333	257.6828194	162.7711028	156.0854896
226.950701	137.0794395	3.2115	230.4197967	137.6152241	137.2022618
239.2297529	141.3365102	2.092	240.9382713	142.4770899	141.2432682
231.0529177	137.7680666	2.315333333	231.3283176	137.8399138	137.9381138
259.0902501	165.4278244	1.924666667	262.9275926	173.6841475	167.0473302
241.196903	142.6624489	2.0895	244.0361822	144.9255752	143.3269882
257.5688065	162.5638874	2.492166667	257.1625143	161.8349258	164.6051008
272.5791707	185.5840087	2.671666667	274.3701967	180.5166664	179.8163094
259.5879422	166.4124217	2.02	260.2684757	167.7985094	168.7978443
248.3713571	149.2451056	2.248666667	250.3644327	151.6155264	151.3899761
227.3718087	137.1174667	2.294237288	229.391993	137.4034903	137.6803928
235.4028895	139.2895914	2.474	240.3362266	142.0586538	140.4438578
257.2238192	161.9439777	2.635166667	258.5630849	164.4109933	164.1696039
258.3698151	164.0447928	2.197333333	261.7115726	170.896475	168.4229035
236.523472	139.8183252	1.9285	240.7546502	142.3475412	141.1071066
238.6629589	140.9897229	1.454666667	245.126135	145.9096213	142.1166742
261.6924991	170.8540721	0.55	268.6347948	189.2911155	175.7888989
299.1238377	142.4330805	1.313333333	300.4082318	141.5661634	141.3858132
269.3618897	191.6250341	2.132166667	272.7647162	185.0374158	190.2604124
287.6721163	154.2108708	2.827833333	289.0633497	152.3444047	152.48109
284.5434102	158.9302349	3.423166667	287.4810261	154.4779656	156.7299468
275.3007217	178.0590676	3.087333333	278.8096712	169.7519409	172.5099826
281.0247427	165.2037538	1.796166667	284.1188412	159.6301739	160.3529154
274.6791625	179.6879077	1.247166667	276.7806815	174.3782723	181.1460694
299.3042104	142.3063728	2.216333333	302.4277982	140.3656189	141.3631049
314.1622874	137.0146445	2.563833333	313.482378	137.0480728	137.0326273
287.5397923	154.3955443	3.015	290.0938665	151.0475861	152.6016891
280.1546594	166.9312136	3.323833333	282.6900511	162.0977512	162.5856662
284.6090165	158.8234006	3.390833333	286.5026142	155.8875042	155.9475443
272.223444	186.6465144	2.236166667	274.9979696	178.8461169	181.7973191
257.1524882	161.8171225	2.538333333	258.2243699	163.7715091	164.2563342
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147.8276127	1.691333333	247.3665378	148.1451955
148.7551918	1.136666667	243.3806475	144.3651379
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179.5176114	2.2425	262.462796	172.5987598
144.4802159	2.421355932	242.8765566	143.9498886
144.2439314	1.872666667	242.8889077	143.9599013
185.931398	1.605	269.6070441	192.4320233
156.5816406	1.957	251.4975062	153.0805309
142.6467433	1.9115	237.588582	140.3745747
137.9321561	2.164	229.6576089	137.4539089
139.1128827	1.825666667	233.3764644	138.4772397

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239.4650414	141.4850436	3.4685	239.862092	141.7418324	142.667821
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266.6213899	183.2652896	3.191666667	268.92784	190.2212125	187.5759483
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240.3122924	142.0423936	2.5265	241.5525638	142.9229004	142.338396
248.1578059	149.0061401	2.397166667	251.4799048	153.0570976	150.7355381
240.0225737	141.8478223	2.036166667	242.8336817	143.9151937	142.2837047
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248.5766622	149.4775284	2.65	248.2359605	149.0932666	150.5366378
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249.2938109	150.3103211	1.765333333	250.5049385	151.7924516	152.8539484
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254.2190178	156.9732626	1.932	256.3564111	160.4315174	159.1601657
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271.1421817	189.9976879	2.932833333	274.2637091	180.8053009	183.6371519
277.8503882	171.8813808	3.137833333	279.7414415	167.7779742	167.261213
276.9911632	173.8764493	2.625666667	278.8490607	169.6666424	169.1961512
269.5179353	192.1375065	2.44	271.8572454	187.7606871	185.8725985
272.0504798	187.1701593	2.912833333	274.6492124	179.767683	182.9651735
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271.4351454	189.071204	2.861833333	275.3631999	177.8981246	184.5084553
287.2461319	154.8099214	3.340333333	288.8970656	152.5603905	152.1866729
280.8597235	165.5257023	3.248833333	282.0399517	163.2798737	163.6867439
282.133358	163.1076726	2.781166667	284.4927937	159.0129002	159.9712137
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267.619398	186.174724	2.456833333	269.5567364	192.2655814	188.8136032
267.3141286	185.2690512	2.384833333	269.5932267	192.3862651	191.0324687
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8/8/2019	1606	2.0215	267.6742825
8/8/2019	1607	2.141525424	280.7282889
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237.8235126	140.5044112	3.826833333	238.8314763	141.0912089	141.2956914
256.1302802	160.0478541	2.831666667	257.2337104	161.9616037	165.4615022
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275.3395736	177.9589266	2.941166667	277.3285488	173.0829177	172.2612748
280.1455768	166.9496405	2.853833333	282.1392539	163.09683	162.6245519
275.1924388	178.3391965	3.511	277.3689744	172.9887239	173.904141
265.3002789	179.633217	3.104166667	267.2028312	184.9423444	184.8289669
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262.2608224	172.1348471	3.425333333	263.1699257	174.2600407	177.1868365
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236.3180006	139.7170709	2.887166667	238.6237492	140.9663055	140.5054395
265.8336186	181.0704636	2.883333333	267.4323716	185.618182	188.0737425
255.4782999	158.9656654	2.372666667	254.8434464	157.9453989	161.329439
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257.4532018	162.3549726	2.534	260.3044519	167.8730884	163.9598399
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151.7661962	1.598333333	249.1323048	150.1199088
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143.4829703	1.319	242.2936548	143.4864895
177.1589863	1.051833333	264.278787	176.9855125
165.4075037	1.013166667	256.7642696	161.1345483
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144.1207457	1.360833333	243.7337969	144.6641636
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149.3266638	1.353833333	247.7183381	148.523246
145.2829604	1.151833333	245.3216928	146.0932042
158.9955139	1.121864407	254.6043061	157.5694637
142.3560192	1.302333333	241.3527238	142.7757629
141.3575931	1.568833333	238.7237233	141.0261595
149.4496359	1.220333333	246.3073366	147.0517667
158.1859553	1.011833333	252.6823935	154.7084863

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253.8013059	156.3399205	1.967333333	254.8095486	157.8918341	156.8196042
256.1846921	160.1397761	1.788166667	258.4130588	164.1264256	161.271497
268.5372997	188.9847814	1.746166667	271.4468954	189.0343366	190.9399437
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266.3838748	182.5943208	1.676	270.0747397	193.4950174	186.6051813
265.1942877	179.352149	1.52	266.1162609	181.847916	184.3058211
263.3206307	174.6216931	1.542372881	265.140515	179.2101247	181.5158191
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238.9396069	141.1570487	1.456833333	244.5560028	145.3866635	141.5433373
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254.49561	157.4000865	1.454333333	255.9994021	159.8277732	159.023488
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230.167492	137.5590868	1.876	232.8728158	138.3035716	137.9071989
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244.134789	145.0118992	1.813666667	247.6688482	148.4696082	145.1286486
234.601398	138.9463652	1.639166667	239.8713789	141.7479313	139.3989492
245.7109127	146.4650567	1.389166667	249.3305711	150.3538952	148.4160062
241.4494064	142.8466932	1.817333333	244.2065354	145.0750434	143.7343651
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238.316029	140.7850806	1.588666667	241.3942394	142.806162	142.1807562
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8/8/2019	1846	1.041166667	250.7782338
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152.1403966	1.2485	252.0418658	153.8160026
147.7576002	1.433166667	247.7676246	148.576812
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151.1531106	1.208	250.5168782	151.8075472
143.8960545	1.017166667	244.6198905	145.4443627
140.9136573	1.170166667	241.2210124	142.6799007
139.9064225	1.311833333	239.1852819	141.3087391
144.1372455	1.135666667	246.5179669	147.2639127
146.3006884	0.895166667	246.7507373	147.5013936
154.0092496	0.962333333	252.9816444	155.1356788
146.0884221	1.283166667	246.6025699	147.349858
153.9907548	1.024833333	250.8242037	152.1994203
152.724833	0.8365	249.9956716	151.1574505
154.8888456	1.052333333	250.5015819	151.7882094
153.7135744	0.959322034	251.3766929	152.9201229
149.907905	0.7895	248.7078517	149.6274328
142.4299804	1.145833333	243.2070553	144.220609
145.6514604	1.039666667	244.2809103	145.1407995
139.8399004	0.885833333	236.4724534	139.7930022
141.2580986	0.821333333	240.2911371	142.028045
142.2083364	0.686	242.7513375	143.8488324
149.8830307	0.594666667	245.007717	145.7995036
148.8891715	0.790666667	248.270981	149.1324306
145.3758166	0.631333333	242.1232472	143.3543789
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158.217242	0.587333333	253.7302746	156.2335543
160.2818885	0.6875	255.0615068	158.2921717
159.997484	0.618	255.6147602	159.1892527
142.4618277	0.533	239.5554441	141.5428315
145.3768642	0.606333333	244.1833144	145.0545756
141.0822818	0.5585	239.3190074	141.3925376
143.126063	0.545833333	241.1529216	142.6306886
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238.9958954	141.1915457	1.836833333	243.3171022	144.3120442	141.426186
242.4278719	143.5916094	1.478833333	246.367468	147.1120657	144.2306232
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240.1376643	141.9246174	1.535666667	245.4496331	146.214483	142.8317798
239.4449805	141.4722743	1.477166667	244.5900045	145.4173434	143.2167332
233.358756	138.4709445	1.512833333	240.9373874	142.4764622	139.4987759
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243.6251158	144.5714219	1.167666667	247.45794	148.2426955	145.5386337
237.9715409	140.5875584	1.369666667	243.152402	144.1754396	142.089139
236.3258936	139.7209246	1.436	241.0053869	142.5248658	140.865238
243.8558432	144.7690736	1.404666667	248.1641933	149.0132465	146.2958696
245.3892005	146.1570811	0.9955	253.3774907	155.7109503	148.9175283
248.4067707	149.2850085	1.184166667	250.6301871	151.9512846	152.5953054
245.7223205	146.4760861	1.569666667	249.3612064	150.3902756	147.5761604
249.4361486	150.4795277	1.319	250.6553393	151.9833087	152.1632529
249.5939307	150.6686277	1.076666667	255.250728	158.5961845	153.2867739
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241.9096124	143.1908866	1.45	246.4087233	147.1535584	144.2487586
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235.9059267	139.5198474	1.119166667	242.9987731	144.0493225	140.8005181
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242.5543131	143.691502	0.9085	247.5223071	148.3116604	144.5150828
242.8873471	143.9586358	0.8195	244.3633261	145.2140202	146.2137976
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8/8/2019	1927	0.512	226.8289536
8/8/2019	1928	0.540666667	221.1825076
8/8/2019	1929	0.466440678	215.1856592
8/8/2019	1930	0.484333333	221.5815164
8/8/2019	1931	0.468833333	218.5381968
8/8/2019	1932	0.5435	216.1019261
8/8/2019	1933	0.4665	216.3876793
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8/8/2019	1935	0.438833333	211.402134
8/8/2019	1936	0.4365	212.1722028
8/8/2019	1937	0.474333333	214.6468036
8/8/2019	1938	0.445333333	210.8732789
8/8/2019	1939	0.464666667	215.116364
8/8/2019	1940	0.507666667	218.5210694
8/8/2019	1941	0.467833333	222.4136849
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8/8/2019	2004	0.240833333	260.3635845
8/8/2019	2005	0.2565	253.892967
8/8/2019	2006	0.348833333	253.2780813
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8/8/2019	2008	0.314	239.6988892
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137.0683176	0.4545	224.1891613	137.0137199
137.410445	0.413166667	225.9845748	137.02023
138.308034	0.386	217.5652146	138.1615539
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186.4476165	0.291666667	263.7395567	175.6413504
179.3263007	0.2755	269.7591142	192.9378069
176.4806433	0.301166667	272.0454906	187.1853328
180.9738316	0.2865	268.8349766	189.9249474
188.6631133	0.308833333	263.1380422	174.1838747
165.1854528	0.332166667	252.5755792	154.5575932
167.9959592	0.3105	254.8905269	158.0199468
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155.5653822	0.446	248.7589784	149.686147
149.0220262	0.445333333	247.3117913	148.0870384
141.6353464	0.404666667	240.5945977	142.2360034
162.1001013	0.292666667	250.8200032	152.194021
166.4025687	0.268666667	252.643357	154.6532442
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209.675301	142.0508188	0.879833333	213.3192567	139.8971424	140.0332686
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206.8398002	144.1818745	0.991833333	210.2346154	141.678575	141.7801648
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221.9735761	137.1913419	0.973833333	219.7937832	137.5675268	137.2153096
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218.5270316	137.8789572	1.133166667	216.7279843	138.4403084	137.751842
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263.7262705	175.608685	0.565666667	244.5950785	145.4219272	172.9823478
257.5820979	162.587984	0.609	241.6329255	142.9826451	167.1044043
251.8098274	153.4999437	0.6305	241.1018497	142.5939313	153.9592302
251.8071061	153.4962597	0.614666667	244.6164383	145.4412391	156.2383512
243.760872	144.6873674	0.641	245.2945251	146.0675707	149.2350786
244.482144	145.3202414	0.693833333	245.8447101	146.5948862	149.2916642
243.2954783	144.2940263	0.644333333	245.0876962	145.8737903	146.8192203
239.2104115	141.3244202	0.623666667	241.312684	142.7465277	141.9855744
247.518872	148.3079736	0.481833333	251.5370156	153.1332098	153.9338264
247.6252838	148.4225163	0.466101695	246.5695262	147.3162398	154.1986422
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8/8/2019	2019	0.2845	202.3556944
8/8/2019	2020	0.278833333	215.9196424
8/8/2019	2021	0.240833333	219.8341505
8/8/2019	2022	0.276166667	225.9266287
8/8/2019	2023	0.301	234.4078416
8/8/2019	2024	0.306166667	229.4611692
8/8/2019	2025	0.358	223.6532063
8/8/2019	2026	0.391166667	221.7134593
8/8/2019	2027	0.3795	221.800112
8/8/2019	2028	0.372166667	219.6129824
8/8/2019	2029	0.396166667	225.1575076
8/8/2019	2030	0.344333333	225.8872031
8/8/2019	2031	0.335833333	218.1945188
8/8/2019	2032	0.392666667	215.5260933
8/8/2019	2033	0.439	214.8785345
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8/8/2019	2036	0.398474576	231.256155
8/8/2019	2037	0.436666667	237.0550346
8/8/2019	2038	0.414166667	244.6067122
8/8/2019	2039	0.422	241.792051
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8/8/2019	2041	0.350333333	239.6720084
8/8/2019	2042	0.2635	256.443808
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8/8/2019	2047	0.253833333	223.1291028
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8/8/2019	2050	0.431333333	200.3496234
8/8/2019	2051	0.332666667	201.8855172
8/8/2019	2052	0.270333333	195.3689096
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8/8/2019	2056	0.328	208.4698837
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138.7386774	0.388333333	214.653522	139.2644864
137.5587302	0.328833333	219.1116443	137.7266891
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137.3674116	0.366779661	227.9546112	137.1823591
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148.9580067	0.506666667	198.1811222	153.5121998
157.611344	0.447166667	192.1796521	163.0226213
154.9953419	0.469	196.8288297	155.4096544
150.1585934	0.487666667	201.3884951	149.5172359
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138.7702919	0.365333333	227.0823812	137.0905326
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225.141126	137.0004156	0.860666667	221.5181595	137.2533564	137.0731974
221.7661703	137.2185025	0.9555	219.7949077	137.5672808	137.3548212
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236.6579511	139.8856492	0.766166667	233.3859678	138.4806237	141.8448216
234.069243	138.7343788	0.799166667	230.2890893	137.5858032	140.3232876
234.3828439	138.8577751	0.827666667	229.4393681	137.4122639	139.4857031
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193.9339977	159.9395862	0.553666667	201.6581806	149.2118834	157.4463587
197.7583852	154.0911524	0.570833333	205.7960867	145.0727307	152.3922199
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302.6873081	140.2254144	0.531833333	293.7202992	147.0241247	142.1773193
287.2445112	154.8122259	0.574333333	283.5729867	160.5521943	155.7221926
247.4384342	148.221846	0.6085	250.7001657	152.0404887	152.5779481
236.187752	139.6538912	0.570166667	244.2450728	145.109077	141.9882746
225.2514517	137.0013193	0.645	231.5779882	137.9078684	137.2280559
209.9721208	141.8513481	0.7955	220.3417556	137.4540331	141.6664537
206.5605762	144.41444	0.839333333	218.0901616	138.0023527	142.3011728
204.6530096	146.1171109	0.826333333	218.9933861	137.7563066	142.0842419
199.9208628	151.2603409	0.865166667	215.8392003	138.7699524	147.0213226
189.9534319	167.3414088	0.836333333	200.6793147	150.3421684	159.5537754
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192.0147632	163.326447	0.839322034	204.810544	145.9688282	156.3388595
199.4813487	151.8097899	0.845	212.5165758	140.3172998	149.1007573
201.0997323	149.8492655	0.8685	211.6898764	140.781647	146.6937519
199.8052513	151.4036211	0.8165	209.2910041	142.3155945	146.4279586
195.6652206	157.1511729	0.805166667	204.8936693	145.8911502	151.4322565
187.2351711	173.3012153	0.861	197.960175	153.8132061	165.9149465
187.0626958	173.7070938	0.8245	197.0402379	155.1042176	169.5788762
182.6150865	185.4778017	0.740833333	193.403338	160.8439098	179.2930312
178.5644904	189.070061	0.635833333	189.125878	169.071848	183.9755931
176.0931266	181.7838642	0.701166667	185.0773503	178.6385999	181.547748
170.4922943	168.2646466	0.698	179.2420276	191.2342064	170.9405909
176.6209829	183.2641331	0.753666667	184.4314201	180.3514192	181.7369816
180.5905024	191.7809434	0.7025	188.043044	171.4455758	182.9315243
188.901412	169.5535314	0.673666667	195.5863465	157.2729912	165.956679
190.1014877	167.0392065	0.6825	197.6568402	154.2321258	162.9856005
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278.926211	169.5000523	0.277166667	243.5814741	144.5343606	147.7287866
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214.253496	139.4456285	0.402833333	219.3394271	137.6713295	137.9419245
208.7442567	142.7050928	0.443833333	215.900948	138.7459199	141.2996065
199.7197497	151.5101573	0.501666667	209.5560036	142.1322234	147.7552212
197.9078533	153.8849947	0.544833333	207.0042939	144.0468175	151.9475806
190.8062568	165.6305789	0.533833333	200.6443618	150.3836588	165.2311688
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8/8/2019	2209	0.346333333	125.1854913
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192.9939503	0.298833333	178.6482839	189.3336202
190.9896845	0.428666667	181.2880717	189.5345662
178.4819297	0.458	186.7785551	174.3833688
175.9364044	0.463166667	190.2324314	166.7737668
167.7371418	0.406166667	194.5269255	158.9571341
161.2864151	0.410666667	200.7845054	150.2177785
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139.5594184	0.384666667	218.8840151	137.7842322
141.8998375	0.496833333	217.2396638	138.2663045
142.2751198	0.545166667	214.6077556	139.2848429
141.5153206	0.442033898	214.5035103	139.3315646
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144.1948776	0.462166667	212.9910837	140.0652962
147.5302549	0.487333333	207.456677	143.6827861
147.6386865	0.600833333	205.7520895	145.1115863
147.8132229	0.656666667	209.0145185	142.5106724
151.8091647	0.86	204.6710847	146.1000259
157.3245275	1.095	200.5115672	150.5420107
157.9194705	1.115	198.4472782	153.1541816
142.5685315	0.494166667	210.9253614	141.2400614
144.8963668	0.481666667	210.0256734	141.815824
138.3501601	0.376	219.0187128	137.7499131
137.2201424	0.3585	225.7950424	137.0131905
139.3976206	0.276833333	238.337994	140.7978664
161.5860329	0.258	250.2425589	151.4631332
173.4780962	0.234333333	256.6828442	160.9930501
187.0549054	0.1255	262.2750235	172.1673142
137.0582645	0.259	232.41521	138.1554024
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94.17034844	181.0596302	0.472666667	93.19103475	183.8009153	178.558572
79.74179197	166.7217161	0.488166667	82.38402721	172.4172839	172.3028685
73.71942224	156.2173372	0.534666667	81.81486382	171.1268007	161.6808725
70.34249852	151.5880263	0.541	80.18022538	167.6161254	154.4490879
53.18916589	138.4113553	0.561	68.33034104	149.198988	140.7539719
48.61391244	137.2729739	0.622666667	60.62408437	142.2564556	138.4453134
43.37742921	137.0549538	0.708833333	58.44051069	140.8578458	138.0467839
54.45066695	138.8850386	0.664333333	65.72135928	146.4751565	141.1817799
64.54514416	145.3768793	0.668666667	75.06848791	158.3033366	150.6088399
80.39846118	168.0685973	0.614666667	87.76345805	186.6070493	179.3748535
103.2920314	161.0366492	0.6015	99.16756265	168.982983	157.9971629
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120.6350325	141.4215392	0.621333333	110.6191062	150.4136871	142.5601444
123.3723188	139.8704224	0.579333333	113.8839575	146.8613425	140.7402287
129.5981466	137.6111421	0.512166667	120.932931	141.2353845	138.5799851
136.6926883	137.0598077	0.4765	126.6844935	138.4556277	138.200752
147.5881014	140.3743117	0.464166667	136.5219372	137.0483467	141.798724
150.2161564	141.9773683	0.451	137.2527295	137.1059603	146.2024237
154.3836238	145.2321108	0.438	145.2499585	139.2218659	148.4066163
159.0675127	150.0439906	0.417833333	154.7172899	145.5327638	150.9126411
165.7319858	159.38255	0.379666667	170.0239015	167.2949999	166.2776727
173.3329319	174.6513324	0.404166667	175.9646773	181.4295841	184.6021218
177.2407916	185.0535668	0.4735	184.3748902	180.5039803	186.5204495
184.5921525	179.9200006	0.525333333	200.4568586	150.6075808	170.84822
187.9172385	171.7296885	0.544166667	203.0838195	147.6721346	165.5279986
191.921223	163.4999117	0.548666667	206.1190725	144.7907361	158.7462309
196.5036645	155.8859529	0.551666667	212.6057285	140.2691489	151.9148238
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207.8927577	143.3420486	0.551833333	220.5473335	137.4147437	140.692511
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202.3012164	148.5020347	0.744666667	214.4486828	139.3563354	145.1521607
203.0703776	147.6860785	0.838	213.2377598	139.9384348	144.4871022
198.4107714	153.2029941	1.017333333	206.9858602	144.0618808	148.7935164
194.9476706	158.2775004	1.387	199.9923076	151.1722405	154.3290698
193.4226277	160.8106161	1.393833333	199.3985747	151.9147168	155.9497463
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222.8156745	137.0996192	0.538333333	233.689178	138.590683	137.4809088
233.8399524	138.6469224	0.4245	238.4506716	140.863818	139.9265569
243.3589984	144.3470252	0.393833333	248.1722784	149.0222454	151.6046092
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8/8/2019	2300	0.482833333	182.8475091
8/8/2019	2301	0.602333333	185.5105353
8/8/2019	2302	0.508166667	188.7207672
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8/8/2019	2304	0.604166667	192.9258163
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8/8/2019	2324	0.676833333	204.0076973
8/8/2019	2325	0.636	198.9303894
8/8/2019	2326	0.583220339	196.835768
8/8/2019	2327	0.5625	194.8877235
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8/8/2019	2330	0.7505	189.1747173
8/8/2019	2331	1.067166667	190.6250573
8/8/2019	2332	0.867833333	191.3722929
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219.8188967	137.5620461	0.7115	224.7879662	137.0009381	137.1823654
217.2001389	138.279337	0.738666667	220.5278847	137.418384	137.5131455
217.6425469	138.1373497	0.695166667	220.9744386	137.3388382	137.4513634
219.5005357	137.6335141	0.617666667	221.2699128	137.2908378	137.2440082
215.4470601	138.9265387	0.5965	217.1221927	138.3052383	138.0618319
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234.3853208	138.8587671	0.752833333	236.2792534	139.6981944	140.2750681
242.4044842	143.5732242	0.704	242.5462702	143.6851228	146.0973641
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Yes	7.68
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Yes	3.509
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Yes	4.669
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Yes	8.38
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8/9/2019	0033	0.325254237	243.9020359
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8/9/2019	0036	0.374666667	240.0564732
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8/9/2019	0102	0.488	223.2922852
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141.8703739	0.4675	242.2908248	143.4842832
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138.276871	0.494666667	221.3229579	137.2826106
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137.2693688	0.578833333	231.1394023	137.7902781
137.0738938	0.6625	226.1885881	137.029484
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137.2250122	0.6135	224.8494839	137.0004727
137.6141064	0.721833333	224.7531684	137.0012713
137.0419818	0.6565	226.6476873	137.0566689
138.7111961	0.695833333	234.8046802	139.0306833
138.3881904	0.7625	237.7191985	140.44644
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143.4087632	0.733333333	293.2541487	147.4963757
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193.747258	1.022166667	327.1182413	193.747258
193.747258	0.935833333	317.5849372	193.747258
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137.3545108	0.7425	304.7815496	139.2080439
137.0748905	0.898166667	307.879327	138.0648561
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241.1045637	142.5958812	0.670833333	245.090003	145.8759382	144.507936
244.1925421	145.0627057	0.689166667	249.975697	151.1328955	148.0766954
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238.275028	140.7612756	0.741833333	244.8802483	145.68185	142.9494457
239.3130016	141.3887554	0.7585	244.2498116	145.1132676	143.216035
238.3290068	140.7926322	0.7305	243.5364623	144.4962434	142.3594284
237.482112	140.3165884	0.6805	242.368256	143.5448015	142.373246
238.8615708	141.1094766	0.663	242.7216971	143.8250328	143.9471313
239.0686076	141.2363349	0.572	242.0611032	143.3065768	142.6661019
231.6973525	137.941306	0.640666667	237.3934021	140.2686811	138.9099198
227.4710338	137.1275086	0.619833333	234.2570884	138.8077667	137.6258124
218.1872234	137.974225	0.583833333	223.7769626	137.0312182	137.655307
214.3798964	139.3876059	0.669661017	221.5247761	137.2523929	137.9590231
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211.779272	140.7298724	0.971833333	221.5609633	137.2471561	139.6330945
205.5540311	145.2878189	0.903	212.9498753	140.0867647	142.6342315
200.2730476	150.829312	0.9395	205.3561304	145.4660775	148.2147635
201.5735335	149.307235	0.975	206.959218	144.0836836	145.9384126
202.0966863	148.7250519	0.959666667	207.8255093	143.3939471	146.1744449
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199.4023514	151.9099193	0.849	202.4591392	148.3315861	149.756232
197.092193	155.0296607	0.692166667	202.2798614	148.5252003	151.3633753
199.3246187	152.0088572	0.6085	207.809481	143.4063516	147.2132984
209.1003608	142.449693	0.554666667	214.9063679	139.153729	139.7945668
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222.8078296	137.1003365	0.861833333	231.3073347	137.834325	137.258328
228.5614064	137.2650868	0.955833333	234.9734661	139.102102	138.527267
231.3172705	137.836969	0.962166667	239.0063148	141.1979481	139.4673869
239.4861906	141.498527	0.7945	244.3822744	145.2309074	145.0669936
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320.1910499	193.747258	1.18	315.6159179	193.747258	193.747258
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175.5599848	0.267333333	260.3132666	167.8913817
147.4046269	0.4055	248.1978816	149.0507691
144.4780936	0.500333333	247.8465749	148.6629276
154.6446002	0.407166667	250.3130281	151.5511282
160.9971744	0.433166667	254.1203197	156.8223997

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301.9513672	140.6312717	0.616833333	298.5747662	142.8289145	141.9831384
309.3996561	137.6570627	0.6255	304.5978256	139.2892722	138.0459524
314.5491557	137.0042414	0.746166667	310.0195494	137.5192206	151.3752674
309.8131457	137.5632988	0.616	305.8532001	138.7644887	138.0386674
303.8687123	139.6267439	0.469333333	301.842152	140.6936826	140.1326469
292.1369429	148.6809539	0.481666667	291.2865398	149.6338655	149.544353
295.850454	145.0248638	0.595	293.687124	147.0573127	145.2145963
302.891114	140.1175145	0.488666667	299.2920035	142.3148963	140.4988617
290.0242121	151.1330072	0.504333333	289.3892007	151.9266288	152.0110528
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285.0219416	158.1590167	0.654166667	282.1449939	163.0862769	158.118071
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257.8425371	163.0633629	0.507	261.6793131	170.8247814	166.5989369
260.4036955	168.0795097	0.555166667	263.0397458	173.9498135	170.8071715
255.4224612	158.8746154	0.705833333	260.8999173	169.1269313	162.9338944
255.1723165	158.4698532	0.676833333	258.3350739	163.979337	162.6873376
261.2336857	169.8460231	0.658333333	265.1810999	179.317282	176.6822709
258.8376566	164.9372982	0.645333333	260.8864262	169.0981138	169.6864442
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267.3792038	185.4609353	0.61	267.2228158	185.0008718	184.6475377
270.201982	193.0678465	0.623	270.3189036	192.6778192	186.5390473
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272.9220026	184.578098	0.719666667	270.9655316	190.5631533	181.5775791
271.2588613	189.6270142	0.709833333	273.3723216	183.2831641	182.6303667
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296.2379101	144.6884121	0.446166667	291.1834241	149.7524905	144.2612896
287.9270633	153.8586147	0.4305	281.9289159	163.4856154	153.7857102
291.5772191	149.303074	0.441333333	286.4245215	156.0030842	151.0891101
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261.4503089	170.319114	0.4745	264.7101756	178.0871905	172.1949183
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255.7201298	159.3629486	0.4835	259.1793629	165.6023442	162.4966599
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8/9/2019	0216	0.428166667	223.3240911
8/9/2019	0217	0.446833333	215.2346424
8/9/2019	0218	0.354	204.9534125
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8/9/2019	0223	0.3045	199.329563
8/9/2019	0224	0.263833333	219.6090171
8/9/2019	0225	0.215833333	232.1840303
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8/9/2019	0227	0.168833333	238.5152954
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8/9/2019	0235	0.131333333	41.19097614
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142.6988151	0.276666667	244.2802478	145.1402124
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161.7851405	0.39	256.4161019	160.5335162
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150.5062075	0.360666667	289.5915296	151.6708362
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142.3717382	0.471333333	291.8187736	149.0322094
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158.8885843	0.401	283.3495599	160.9368989
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176.1499762	0.4525	276.0935526	176.0535145
160.273834	0.513	281.3361172	164.6033752
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143.898022	0.658166667	291.7935365	149.0603389

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239.1803366	141.3056568	0.635833333	247.6337846	148.4316963	144.1856152
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226.0887999	137.0247404	0.738833333	237.5143934	140.3341134	137.8982029
223.0164486	137.082139	0.727	230.9262167	137.736106	137.2201881
213.5551755	139.7793388	0.7225	219.229169	137.697849	138.8617269
205.4695184	145.3636779	0.642333333	208.7665506	142.6889148	144.194897
196.8797074	155.3358445	0.657666667	198.2717211	153.3897717	154.1298437
198.4188252	153.1922175	0.540166667	197.8265202	153.9969771	150.4076238
196.9670464	155.2095875	0.591833333	199.2522484	152.1013376	151.1847828
196.1436755	156.4225733	0.637666667	198.1066989	153.6132032	152.3641635
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22.54723017	148.2371669	0.073166667	4.675589329	179.6974189	153.8593071
38.30230969	137.9414015	0.164	33.31843008	139.8975597	138.1476209
43.2008269	137.0675725	0.136833333	34.07875811	139.5270384	140.9778939
40.19530446	137.4831159	0.219833333	37.71036409	138.1163376	137.6647369
43.07866124	137.0770649	0.273333333	39.9577329	137.5322315	137.162673
44.21928459	137.0127193	0.338	41.71383001	137.2256426	137.0811837
43.39617283	137.0536911	0.266333333	37.08293418	138.3183843	137.8570568
52.83086597	138.289608	0.098833333	31.02281352	141.1800627	139.4991197
287.6440254	154.2499691	0.114166667	287.7600736	154.0888147	163.7811167
309.734392	137.580595	0.234166667	298.0715837	143.2051822	140.4674911
282.3197925	162.7663425	0.278333333	282.7004424	162.0791639	162.3419309
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272.1019891	187.0137309	0.498833333	273.1166128	184.0148448	188.4863153
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286.5524332	155.8140108	0.442	286.6667385	155.6460927	153.4092868
289.4507394	151.8485374	0.476333333	287.6308983	154.2682597	152.7409863
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299.2314412	142.3572946	0.507166667	299.7811189	141.9792049	142.002503
291.8304334	149.0192267	0.5735	291.1471217	149.7944132	147.5543969
286.5712697	155.7862718	0.533166667	286.7548768	155.5172841	156.9298762
284.3227414	159.2921671	0.6005	283.6774702	160.3737567	159.8728517
283.2123099	161.1753539	0.5185	280.6436706	165.9512042	163.359963
274.442738	180.3209268	0.603	274.5963869	179.9086821	177.1925152
274.4122414	180.4031295	0.6315	276.640932	174.7143666	176.8302467
279.0119573	169.315644	0.658833333	281.5079432	164.2760048	164.6172145
289.8995932	151.2866342	0.688	287.6650592	154.2206879	150.9761473
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8/9/2019	0305	0.497	304.798696
8/9/2019	0306	0.617	303.3640867
8/9/2019	0307	0.660666667	303.0630861
8/9/2019	0308	0.645833333	306.8089262
8/9/2019	0309	0.728333333	305.5641384
8/9/2019	0310	0.692166667	312.1308146
8/9/2019	0311	0.720833333	310.9343928
8/9/2019	0312	0.766833333	316.8682838
8/9/2019	0313	0.749	320.5932679
8/9/2019	0314	0.769833333	325.3808993
8/9/2019	0315	0.919	329.5983804
8/9/2019	0316	0.826166667	328.8570647
8/9/2019	0317	0.6815	331.698216
8/9/2019	0318	0.756833333	327.4376634
8/9/2019	0319	0.6975	326.7016271
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347.0281698	193.747258	1.891666667	345.1890657	193.747258	193.747258
347.9451001	193.747258	1.423833333	347.1263759	193.747258	193.747258
347.064872	193.747258	1.217333333	347.4634197	193.747258	193.747258
352.2168762	193.747258	1.543	351.1473412	193.747258	193.747258
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8/9/2019	0450	0.729	7.270963209
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8/9/2019	0452	0.915833333	7.450155484
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8/9/2019	0508	0.484	35.57570154
8/9/2019	0509	0.550666667	29.04338635
8/9/2019	0510	0.487666667	30.17370855
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8/9/2019	0519	0.714666667	355.5198509
8/9/2019	0520	0.669666667	3.737849395
8/9/2019	0521	0.789833333	0.127386626
8/9/2019	0522	0.813	3.009485014
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8/9/2019	0524	0.708166667	357.4599331
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8/9/2019	0526	0.751	1.622330347
8/9/2019	0527	0.787	4.004644893
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143.3278932	0.866833333	25.11491682	145.686296
138.8744146	0.584	31.01115488	141.1872165
142.4901242	0.632166667	22.17231337	148.6422903
141.7183612	0.596833333	27.12710124	143.9469248
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193.3179293	0.814833333	357.5759945	193.747258
184.3242116	1.031016949	358.6458955	193.747258
182.0440269	0.823	1.29978971	189.4975191
193.747258	0.724833333	354.5265261	193.747258
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188.4865275	0.897333333	357.6760439	193.747258
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183.9122103	1.187333333	359.4158585	193.747258
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193.747258	0.801666667	341.1338864	193.747258
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193.747258	0.954	337.7327446	193.747258
193.747258	0.745	345.4633163	193.747258

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5.401770806	177.7990172	1.355666667	5.638581645	177.1947026	177.8963442
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9.129046202	169.0650876	1.248	9.817846887	167.6201008	168.4752371
10.75578669	165.7298321	1.498166667	9.038247683	169.2592596	166.4384216
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10.06800129	167.1073637	1.317666667	9.020694574	169.2968973	167.8090122
9.204899194	168.9035426	1.171333333	9.566464206	168.1417738	168.758012
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32.90904484	140.1081142	0.890333333	29.40458823	142.2365674	140.6015782
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8/9/2019	0545	0.547	351.0478059
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8/9/2019	0721	1.4145	6.274680633
8/9/2019	0722	1.5155	7.946528345
8/9/2019	0723	1.504166667	3.359107394
8/9/2019	0724	1.462666667	359.9865755
8/9/2019	0725	1.498666667	15.59591012
8/9/2019	0726	1.406166667	13.46968898
8/9/2019	0727	1.291833333	4.406532452
8/9/2019	0728	1.412166667	12.78694295
8/9/2019	0729	1.416666667	13.68953905
8/9/2019	0730	1.484333333	11.86593874
8/9/2019	0731	1.195166667	11.50801977
8/9/2019	0732	1.152666667	4.217011783
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8/9/2019	0746	1.188	6.997424603
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193.747258	1.357166667	355.5032537	193.747258
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14.23608755	159.435392	1.614333333	16.29392018	156.1974115	158.599302
14.53834687	158.9384946	1.423166667	17.28245438	154.7583267	160.4460918
12.22908848	162.9320123	1.427	12.8643458	161.7872504	160.9447017
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14.77596114	158.5531288	1.527166667	14.37062558	159.2132886	158.4108624
1.291235311	189.5245621	1.852166667	358.8956765	193.747258	189.0532058
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354.088398	193.747258	2.365833333	355.6102511	193.747258	193.747258
352.5046773	193.747258	1.918666667	354.5771892	193.747258	193.747258
356.3829079	193.747258	1.8045	356.1008295	193.747258	193.747258
1.207199759	189.7908596	1.904166667	2.227276415	186.6349644	186.9437782
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358.2962178	193.747258	2.310666667	355.6645393	193.747258	191.0708221
358.5576744	193.747258	2.150666667	359.2776786	193.747258	193.747258
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16.35014039	156.1136003	2.353666667	15.16034523	157.9394028	158.2108872
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8/9/2019	0847	1.191833333	25.42197893
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8/9/2019	0849	1.095166667	32.65022957
8/9/2019	0850	1.244666667	31.70436159
8/9/2019	0851	1.46	35.43493649
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27.82487652	143.3944366	2.079166667	27.79360086	143.4186546	144.1352733
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23.62629941	147.1183278	1.784166667	21.91661755	148.923525	147.2164882
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8/9/2019	0953	1.099	5.924789342
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8/9/2019	1005	1.3845	30.61971374
8/9/2019	1006	1.552833333	29.19330089
8/9/2019	1007	1.301016949	31.30243258
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8/9/2019	1009	1.573833333	354.1889995
8/9/2019	1010	1.128	14.5877421
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8/9/2019	1012	1.626	17.80395725
8/9/2019	1013	1.5425	24.34037231
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8/9/2019	1019	1.0215	349.3857455
8/9/2019	1020	0.797166667	5.697342856
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8/9/2019	1047	1.548666667	30.17615289
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Yes	7.15
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8/9/2019	1411	1.3265	331.4355776
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8/9/2019	1413	1.871	350.2901936
8/9/2019	1414	1.409	332.5745077
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8/9/2019	1416	1.030166667	47.06921819
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8/9/2019	1418	0.966	305.7835413
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8/9/2019	1426	1.286	314.2869728
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8/9/2019	1429	1.424333333	328.4737154
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294.1053057	146.6436525	2.4305	295.2966158	145.5201104	146.6658389
285.7039174	157.0915848	2.033833333	289.6527692	151.5939567	156.4809702
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302.158809	140.5142866	2.139333333	301.8642352	140.6810175	140.2505849
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278.7273978	169.9306416	2.005166667	284.0066716	159.8175948	168.7365299
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29.7592521	141.993958	2.011166667	28.18788547	143.1170572	141.4664331
16.50450454	155.8847121	1.453166667	18.13951222	153.5686224	155.7520345
9.542556237	168.1917259	1.276666667	10.02804794	167.1888311	169.609827
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334.7593123	193.747258	2.4245	336.9201003	193.747258	193.747258
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325.0253345	193.747258	3.080333333	326.9958626	193.747258	193.747258
327.9347079	193.747258	2.698666667	328.3730681	193.747258	193.747258
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331.613209	193.747258	2.310833333	332.9240651	193.747258	193.747258
330.5627367	193.747258	2.573333333	332.1603793	193.747258	193.747258
343.6482625	193.747258	2.104833333	343.2286659	193.747258	193.747258
337.8635297	193.747258	1.974666667	336.2360211	193.747258	193.747258
323.3885128	193.747258	1.268833333	324.7673135	193.747258	193.747258
317.9324381	193.747258	1.049166667	320.3429	193.747258	165.5313577
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334.7732398	193.747258	2.399	334.4430148	193.747258	193.747258
334.2541092	193.747258	2.333833333	335.5036617	193.747258	193.747258
333.8253472	193.747258	2.008666667	334.5582751	193.747258	193.747258
350.8015618	193.747258	1.6215	348.6935171	193.747258	193.747258
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193.747258	1.631833333	315.1357369	193.747258
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352.2475456	193.747258	1.4335	353.8533735	193.747258	193.747258
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266.5419804	183.0400633	1.978333333	270.1469247	193.2523333	187.2556757
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293.3797928	147.3678282	1.426666667	295.6029416	145.244097	145.1019956
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269.330356	191.5219778	1.6765	269.1866059	191.0543168	188.361882
276.7443795	174.4653538	1.416610169	279.7304566	167.8007209	170.4478969
276.8136811	174.2992489	1.281833333	283.7508813	160.2489402	164.6877634
318.7532765	193.747258	1.9235	320.5077106	193.747258	193.747258
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8/9/2019	1651	1.476101695	309.0361007
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8/9/2019	1725	1.0235	309.5815812
8/9/2019	1726	1.307166667	325.2143485
8/9/2019	1727	1.2275	304.9786686
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8/9/2019	1729	1.722	311.0526876

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142.1681737	1.422	300.22008	141.6880534
152.1049679	1.499	290.4369951	150.6314361
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Yes	14.12
Yes	7.69
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Yes	6.912
Yes	12.84
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Yes	5.97
Yes	11.04
Yes	10.89
Yes	13.16
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8/9/2019	1734	0.993	323.6496131
8/9/2019	1735	1.142833333	320.0170002
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8/9/2019	1737	1.268333333	295.452734
8/9/2019	1738	1.985333333	298.5245489
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8/9/2019	1740	1.265166667	299.2813472
8/9/2019	1741	1.421666667	307.246747
8/9/2019	1742	1.499166667	324.921677
8/9/2019	1743	1.182333333	317.019554
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8/9/2019	1745	1.3105	325.6178859
8/9/2019	1746	1.173	320.2694284
8/9/2019	1747	1.252666667	334.2488802
8/9/2019	1748	1.525	1.305037925
8/9/2019	1749	1.4005	347.7993698
8/9/2019	1750	1.802166667	352.174292
8/9/2019	1751	1.504666667	4.90426508
8/9/2019	1752	1.565333333	2.660286224
8/9/2019	1753	1.414833333	0.702550683
8/9/2019	1754	1.302666667	358.8062269
8/9/2019	1755	1.17	0.027972962
8/9/2019	1756	1.339166667	4.358612661
8/9/2019	1757	1.645	9.343391169
8/9/2019	1758	1.44220339	350.6363688
8/9/2019	1759	1.212	357.5594016
8/9/2019	1800	1.062	354.8082844
8/9/2019	1801	1.1925	353.774784
8/9/2019	1802	0.911666667	336.5587638
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8/9/2019	1804	1.874	351.1821661
8/9/2019	1805	1.296666667	338.9503292
8/9/2019	1806	1.186166667	343.7915012
8/9/2019	1807	1.072833333	348.3678104
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8/9/2019	1809	1.655833333	332.9598802
8/9/2019	1810	1.335333333	336.8879934
8/9/2019	1811	1.558	334.8190206
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8/9/2019	1813	1.439	333.5544462
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8/9/2019	1819	1.117	343.3921972
8/9/2019	1820	1.195333333	339.3105761

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348.0635442	193.747258	2.807166667	348.3756329	193.747258	193.747258
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346.6545225	193.747258	1.743166667	347.5710633	193.747258	193.747258
341.8411997	193.747258	1.8415	343.2890434	193.747258	193.747258
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341.1823876	193.747258	1.928833333	341.3760979	193.747258	193.747258
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344.7651999	193.747258	1.642	345.9018563	193.747258	193.747258
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Yes	11.12
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Yes	8.45
Yes	19.67
Yes	6.022
Yes	22.46
Yes	4.863
Yes	37.27
Yes	7.44
Yes	11.56
Yes	7.2
Yes	9.41
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Yes	6.51
Yes	4.862
Yes	8.99
Yes	9.47
Yes	6.441
Yes	9
Yes	6.502
Yes	14.63
Yes	11.74
Yes	9.01
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Yes	7.09
Yes	11.81
Yes	11.13
Yes	10.52
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Yes	8
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Yes	16.8
Yes	11.75
Yes	5.831
Yes	12.39
Yes	12.24

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8/9/2019	1822	1.691166667	2.816105074
8/9/2019	1823	1.372	11.58002736
8/9/2019	1824	1.336833333	2.833518977
8/9/2019	1825	1.4245	358.0062973
8/9/2019	1826	1.454166667	355.9855203
8/9/2019	1827	1.4765	0.299148532
8/9/2019	1828	1.377333333	9.972450708
8/9/2019	1829	1.510833333	5.840655988
8/9/2019	1830	1.330833333	4.227929319
8/9/2019	1831	1.091166667	356.2719109
8/9/2019	1832	1.050508475	3.582247611
8/9/2019	1833	1.229666667	355.1622238
8/9/2019	1834	1.212833333	10.33861157
8/9/2019	1835	0.939166667	5.289244601
8/9/2019	1836	0.859666667	3.761964146
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8/9/2019	1845	1.106833333	351.5224332
8/9/2019	1846	1.063666667	351.6800076
8/9/2019	1847	0.986666667	352.1054818
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8/9/2019	1849	0.757333333	336.5617637
8/9/2019	1850	0.86	332.8511636
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8/9/2019	1856	0.964333333	1.140281601
8/9/2019	1857	1.090833333	7.969477035
8/9/2019	1858	1.069	5.53429898
8/9/2019	1859	0.9875	355.4875517
8/9/2019	1900	0.933833333	7.288498811
8/9/2019	1901	1.055833333	5.255513557
8/9/2019	1902	0.850333333	8.034038315
8/9/2019	1903	0.932	7.558272849
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8/9/2019	1907	0.691666667	16.28315958
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176.6846499	1.8775	359.6529933	193.747258
180.9026294	1.686440678	358.8693427	193.747258
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182.689531	1.270333333	358.0609809	193.747258
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193.747258	1.299666667	352.6579378	193.747258
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190.0037429	1.135833333	355.8797008	193.747258
171.6115009	1.194166667	3.866638421	181.8953105
177.4599398	1.2305	1.461142594	188.9896638
193.747258	1.173666667	354.4180444	193.747258
173.1764225	1.000166667	2.826437788	184.8567341
178.175837	1.228833333	2.704175744	185.2151925
171.465855	1.053833333	10.70895801	165.8221458
172.5501497	0.965666667	2.867517736	184.7367922
170.3333337	0.895666667	2.647632498	185.3817273
170.3822372	0.935932203	5.41893155	177.7549843
170.564911	0.8155	5.025343266	178.7744634
156.2134804	0.914	15.75981349	157.0057182
163.1338611	0.968666667	10.10174425	167.0386847
161.4575585	0.885666667	12.32143187	162.7633552
158.9656851	0.9855	15.21847788	157.8476162
155.6066151	0.986	15.46176859	157.4663909

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3.992411747	181.547683	2.0895	3.839806358	181.9697581	184.9592379
358.0792985	193.747258	2.326779661	357.6247762	193.747258	193.747258
355.3169965	193.747258	2.119166667	355.9659915	193.747258	193.747258
359.2708884	193.747258	2.103	1.577179675	188.6270414	192.2162772
7.086279434	173.6513904	2.3535	5.332685668	177.9766661	174.4923023
2.699445566	185.2291058	2.3315	1.611536013	188.520091	186.0452762
0.802195858	191.0906226	2.134	359.7162139	193.747258	189.871942
357.426199	193.747258	1.719666667	358.9008637	193.747258	193.747258
1.5064998	188.8476619	1.609	3.001726502	184.3466823	187.4077833
355.1848117	193.747258	1.8285	356.34241	193.747258	193.747258
9.333856982	168.6302845	1.719333333	7.151658058	173.4973094	169.3177199
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351.247065	193.747258	1.578	350.4135142	193.747258	193.747258
355.2422964	193.747258	1.444833333	354.7862811	193.747258	193.747258
351.9852124	193.747258	1.675666667	351.7285937	193.747258	193.747258
356.366059	193.747258	1.732166667	354.1748761	193.747258	193.747258
355.4475003	193.747258	1.6995	354.0514027	193.747258	193.747258
345.245336	193.747258	1.302	346.9935259	193.747258	193.747258
355.5098162	193.747258	1.659166667	356.8038624	193.747258	193.747258
352.4974803	193.747258	1.6415	351.35263	193.747258	193.747258
349.4719792	193.747258	1.413833333	347.7063892	193.747258	193.747258
352.2024455	193.747258	1.508833333	350.3989489	193.747258	193.747258
349.3398533	193.747258	1.210833333	349.9393921	193.747258	193.747258
337.2763397	193.747258	1.2405	339.6832619	193.747258	193.747258
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343.8034839	193.747258	1.334833333	342.2965796	193.747258	193.747258
354.2227035	193.747258	1.170333333	355.0309143	193.747258	193.747258
1.149815955	189.9733668	1.637833333	359.7826464	193.747258	189.3073638
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355.2252859	193.747258	1.4115	355.6505524	193.747258	193.747258
359.1759619	193.747258	1.455166667	358.7367376	193.747258	192.8113793
9.180188533	168.9561027	1.625833333	9.405397688	168.4794403	172.7355886
3.0505943	184.205296	1.572666667	0.443618323	192.2644093	185.7298272
357.5888146	193.747258	1.455254237	358.9743332	193.747258	193.747258
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14.67407127	158.7178117	1.108833333	17.63800682	154.2583535	156.548841
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14.34811567	159.2503451	1.167	13.82678308	160.1203694	160.897907
15.93422298	156.7393534	1.212666667	16.39249658	156.0506157	157.4008176
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8/9/2019	1913	0.876166667	5.366808364
8/9/2019	1914	0.888166667	2.757699435
8/9/2019	1915	0.829166667	2.318328073
8/9/2019	1916	0.740833333	7.584018919
8/9/2019	1917	0.647833333	4.360570368
8/9/2019	1918	0.725166667	6.094815818
8/9/2019	1919	0.634333333	8.079799129
8/9/2019	1920	0.705833333	6.596779786
8/9/2019	1921	0.653833333	8.53315181
8/9/2019	1922	0.648166667	5.677529182
8/9/2019	1923	0.421833333	3.253670351
8/9/2019	1924	0.5285	354.9371522
8/9/2019	1925	0.587166667	350.6790144
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8/9/2019	1927	0.462166667	336.823308
8/9/2019	1928	0.3925	325.5436361
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8/9/2019	1930	0.516	317.1036602
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8/9/2019	1932	0.452833333	325.4867683
8/9/2019	1933	0.381833333	318.5213953
8/9/2019	1934	0.375166667	308.2943024
8/9/2019	1935	0.5905	296.8789303
8/9/2019	1936	0.589833333	302.2239427
8/9/2019	1937	0.500833333	306.681954
8/9/2019	1938	0.4835	309.4251554
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8/9/2019	1940	0.486101695	306.9347119
8/9/2019	1941	0.648833333	306.6599994
8/9/2019	1942	0.706	307.7253049
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8/9/2019	1946	0.882166667	320.8265616
8/9/2019	1947	0.789833333	322.2300836
8/9/2019	1948	0.8915	327.1572289
8/9/2019	1949	0.794333333	329.3812807
8/9/2019	1950	0.654666667	327.716798
8/9/2019	1951	0.795	335.8726477
8/9/2019	1952	0.714833333	339.4529628
8/9/2019	1953	0.6945	344.8049004
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8/9/2019	2000	0.781	352.9014426
8/9/2019	2001	0.563	353.4683114
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193.747258	0.672666667	346.7092404	193.747258

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2.840903081	184.8144709	1.171	2.403396921	186.1066076	187.4315823
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7.144663032	173.5137711	1.057	7.842881099	171.8984468	176.1274659
5.460640864	177.6481192	1.03	6.955424442	173.9612874	178.6379829
8.19857344	171.0967708	1.097333333	9.8782558	167.4957012	172.4661519
8.94307207	169.4637287	0.830666667	10.57250988	166.0923476	169.5765278
8.943161019	169.4635371	0.943833333	7.431430881	172.8435674	173.617123
8.597325116	170.2146497	0.882166667	8.706978245	169.9751061	172.0128219
5.782626132	176.8305963	0.814833333	8.971617135	169.4023034	176.6032443
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317.7407921	193.747258	0.665666667	307.9062409	138.05677	165.6418474
306.8491543	138.3980656	0.741186441	299.6142796	142.0923692	139.3765902
297.2129887	143.877538	1.003	293.8585761	146.8864859	145.3292686
296.5154535	144.4524153	0.992166667	291.1628102	149.7762855	144.9117756
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305.8625879	138.7608299	0.910666667	300.6254708	141.4275857	139.3953892
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305.8772639	138.7551178	1.2085	301.9254052	140.6460564	139.2103129
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312.9002334	137.0920514	1.345	309.06846	137.737435	151.4582156
315.3043597	193.747258	1.409	310.6179339	137.401664	165.4950233
318.5892734	193.747258	1.456166667	315.842982	193.747258	193.747258
321.2826772	193.747258	1.465166667	318.7521595	193.747258	193.747258
323.6864536	193.747258	1.412833333	322.3170488	193.747258	193.747258
328.628274	193.747258	1.382666667	325.1186255	193.747258	193.747258
326.1103134	193.747258	1.237	324.0146421	193.747258	193.747258
333.3948019	193.747258	1.4335	329.5944605	193.747258	193.747258
338.9726705	193.747258	1.352166667	337.2435059	193.747258	193.747258
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349.0879822	193.747258	1.446333333	346.1869039	193.747258	193.747258
346.5923241	193.747258	1.582166667	343.9457863	193.747258	193.747258
348.522685	193.747258	1.388166667	345.241195	193.747258	193.747258
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348.7474437	193.747258	1.463166667	345.8737202	193.747258	193.747258
349.8824585	193.747258	1.375666667	348.8901446	193.747258	193.747258
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8/9/2019	2006	0.4155	14.52920568
8/9/2019	2007	0.339333333	6.516358507
8/9/2019	2008	0.338666667	1.807974013
8/9/2019	2009	0.333166667	9.029192327
8/9/2019	2010	0.3515	5.320508244
8/9/2019	2011	0.325833333	342.2984093
8/9/2019	2012	0.382333333	7.707712978
8/9/2019	2013	0.248813559	31.11236479
8/9/2019	2014	0.269666667	39.18260711
8/9/2019	2015	0.255166667	33.12617311
8/9/2019	2016	0.2345	320.0198525
8/9/2019	2017	0.1795	336.9178908
8/9/2019	2018	0.265166667	26.04194623
8/9/2019	2019	0.334833333	33.59026299
8/9/2019	2020	0.338333333	2.338729087
8/9/2019	2021	0.330666667	5.394259955
8/9/2019	2022	0.31	350.2393705
8/9/2019	2023	0.437	329.3113237
8/9/2019	2024	0.524333333	343.5192266
8/9/2019	2025	0.499333333	346.3500589
8/9/2019	2026	0.470333333	342.5527137
8/9/2019	2027	0.5925	340.877615
8/9/2019	2028	0.5955	342.7551715
8/9/2019	2029	0.579833333	341.8863571
8/9/2019	2030	0.4165	342.3327025
8/9/2019	2031	0.388666667	345.3391256
8/9/2019	2032	0.387833333	357.3870118
8/9/2019	2033	0.450333333	348.4200529
8/9/2019	2034	0.426833333	335.2924296
8/9/2019	2035	0.4665	333.3623872
8/9/2019	2036	0.484166667	326.8660283
8/9/2019	2037	0.569833333	327.089082
8/9/2019	2038	0.483333333	321.5205263
8/9/2019	2039	0.4615	318.0201497
8/9/2019	2040	0.432166667	317.2191705
8/9/2019	2041	0.422166667	318.1239244
8/9/2019	2042	0.413333333	322.4419186
8/9/2019	2043	0.350166667	339.6886431
8/9/2019	2044	0.313333333	355.7040228
8/9/2019	2045	0.263333333	337.7645982
8/9/2019	2046	0.254333333	300.6540499
8/9/2019	2047	0.219661017	302.8618027
8/9/2019	2048	0.284666667	307.9486637
8/9/2019	2049	0.3035	326.6034064
8/9/2019	2050	0.292833333	347.4925334
8/9/2019	2051	0.176166667	348.8515616
8/9/2019	2052	0.1295	336.7350274
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141.1253332	0.3655	22.6075057	148.1728323
137.7092043	0.337966102	31.10153806	141.1319294
139.9954721	0.353666667	28.76571182	142.689523
193.747258	0.287333333	330.5843817	193.747258
193.747258	0.2565	339.1380802	193.747258
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12.92920282	161.6723945	0.942666667	11.16217172	164.9376295	162.2866266
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7.014386524	173.8214016	0.821666667	4.421705505	180.3776058	174.5379351
5.704814356	177.0269589	0.855333333	3.357781935	183.3245139	181.1124378
346.1782128	193.747258	0.868833333	347.3011922	193.747258	193.747258
1.809513142	187.9074617	0.864666667	358.2423732	193.747258	184.4152318
19.3088118	152.0290262	0.717166667	12.28846269	162.8234818	151.0376684
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346.1785714	193.747258	0.518166667	349.9527036	193.747258	193.747258
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334.758349	193.747258	0.9455	334.2985733	193.747258	193.747258
341.0349758	193.747258	1.085166667	342.6315621	193.747258	193.747258
347.7064145	193.747258	1.184333333	347.8390123	193.747258	193.747258
344.1518536	193.747258	1.1185	344.6347643	193.747258	193.747258
341.40871	193.747258	1.282666667	341.9431078	193.747258	193.747258
343.7124959	193.747258	1.278333333	343.8542949	193.747258	193.747258
342.3439222	193.747258	1.248	343.9796612	193.747258	193.747258
343.0559392	193.747258	1.065	344.7063939	193.747258	193.747258
341.3860069	193.747258	0.945333333	343.2163346	193.747258	193.747258
350.7103935	193.747258	0.850833333	347.3755013	193.747258	193.747258
347.1895226	193.747258	1.0195	345.7488271	193.747258	193.747258
336.2716848	193.747258	0.995	338.8700289	193.747258	193.747258
334.1751551	193.747258	1.074333333	337.6358628	193.747258	193.747258
328.6987984	193.747258	1.0895	334.3016805	193.747258	193.747258
330.037637	193.747258	1.145833333	335.4219422	193.747258	193.747258
324.4623051	193.747258	1.056333333	331.0482588	193.747258	193.747258
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319.4825173	193.747258	1.000166667	326.3006389	193.747258	193.747258
320.6563687	193.747258	1.035333333	327.1719691	193.747258	193.747258
321.5326184	193.747258	0.899830508	328.6012002	193.747258	193.747258
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350.6447806	193.747258	0.867166667	350.6545191	193.747258	193.747258
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347.6884084	193.747258	0.731166667	351.202808	193.747258	193.747258
348.311597	193.747258	0.557166667	351.7638722	193.747258	193.747258
339.1565129	193.747258	0.449666667	343.4338023	193.747258	193.747258
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8/9/2019	2055	0.379	291.7953961
8/9/2019	2056	0.395666667	302.8317458
8/9/2019	2057	0.3395	311.5597697
8/9/2019	2058	0.414166667	308.5278086
8/9/2019	2059	0.4605	317.2133498
8/9/2019	2100	0.412	321.7677177
8/9/2019	2101	0.381166667	338.2015432
8/9/2019	2102	0.312833333	342.9514644
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8/9/2019	2104	0.3665	9.040456988
8/9/2019	2105	0.322666667	7.389477441
8/9/2019	2106	0.336333333	348.0293652
8/9/2019	2107	0.422	358.6066528
8/9/2019	2108	0.4265	354.5260451
8/9/2019	2109	0.489666667	2.962835689
8/9/2019	2110	0.394166667	7.626131353
8/9/2019	2111	0.3695	2.956364905
8/9/2019	2112	0.424666667	15.04158452
8/9/2019	2113	0.401166667	8.62177964
8/9/2019	2114	0.484333333	9.918751927
8/9/2019	2115	0.518166667	357.8925549
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8/9/2019	2118	0.439	357.4824546
8/9/2019	2119	0.3875	352.5310515
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8/9/2019	2121	0.433389831	356.7899776
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8/9/2019	2137	0.611166667	329.5414438
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81.71298308	170.8996124	0.503833333	78.2682487	163.8537479	175.4172746
73.12776285	155.3466697	0.517333333	75.16241099	158.4539295	162.8424256
75.55145263	159.0853342	0.498166667	76.29536122	160.3275103	164.4611574
79.51350416	166.2636153	0.4885	77.52907056	162.4919435	174.2905607
97.86553428	171.8469683	0.634	100.5838401	166.0698415	166.6111138
110.3663425	150.716495	0.818666667	109.9621381	151.2094021	149.2004376
113.1284065	147.6259598	0.954166667	108.1234957	153.5903732	148.8943206
105.1779032	157.9116519	0.926833333	101.4852087	164.3191599	158.9099525
94.69314863	179.6506952	0.899833333	96.3894211	175.3251553	173.4505809
92.05750632	187.1487961	0.914833333	93.47192251	183.0007241	179.9349599
82.05265745	171.661542	0.789333333	86.14956486	181.9402557	178.959243
72.01200847	153.7751196	0.596	79.19004226	165.6233105	158.6203695
55.94695902	139.5391376	0.541833333	69.4266295	150.4681708	143.5018324
57.25446312	140.1943886	0.618833333	66.37789564	147.1225439	142.9507253
54.32719863	138.8355601	0.651666667	64.10353458	144.9844803	140.9679562
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46.63570303	137.0558472	0.729333333	57.20672868	140.1690727	137.8100568
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33.39917	139.8569507	0.578305085	46.5691187	137.0513917	140.9121317
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353.7904245	193.747258	0.409333333	7.683050656	172.2632998	188.3762685
346.3449109	193.747258	0.429166667	355.6361968	193.747258	193.747258
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348.9919748	193.747258	0.3585	351.6408755	193.747258	193.747258
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265.1727308	179.295167	0.362333333	278.8333401	169.7006657	165.6346652
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Yes	7.81

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8/9/2019	2238	0.2905	197.0419894
8/9/2019	2239	0.317666667	181.6752352
8/9/2019	2240	0.279666667	168.2894021
8/9/2019	2241	0.222833333	175.9449787
8/9/2019	2242	0.170833333	176.5881128
8/9/2019	2243	0.211333333	196.2245479
8/9/2019	2244	0.261333333	219.4100741
8/9/2019	2245	0.313833333	233.4366146
8/9/2019	2246	0.328666667	248.0164919
8/9/2019	2247	0.3295	256.2680625
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8/9/2019	2257	0.327666667	253.7963352
8/9/2019	2258	0.213833333	257.2739459
8/9/2019	2259	0.154666667	229.7996736
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8/9/2019	2308	0.164166667	232.0375133
8/9/2019	2309	0.187	231.4118078
8/9/2019	2310	0.256166667	236.2712176
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8/9/2019	2313	0.3345	242.9281679
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8/9/2019	2315	0.233833333	237.4036359
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8/9/2019	2317	0.133666667	269.6778763
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163.893458	0.3565	172.9921363	173.8368567
181.3754554	0.308666667	181.2377242	189.6939982
183.1707968	0.267	180.1343646	193.2944942
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148.8495643	0.417833333	245.9040607	146.6528067
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165.4717029	0.295	250.7565808	152.1126446
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167.3249293	0.245	258.9596421	165.1734245
172.5073154	0.3065	257.8517147	163.0802271
168.755693	0.428	257.6283214	162.6719078
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137.4821036	0.171666667	233.1100283	138.3839808
138.4665136	0.197166667	236.6239868	139.8685668
137.4968974	0.1675	234.5136593	138.9105442
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161.3179086	0.280666667	167.705767	162.8129514
152.358252	0.318833333	200.007446	151.1536163
137.1197921	0.4205	224.893988	137.0002345
151.5248285	0.401694915	248.7639755	149.6918946
176.955656	0.241333333	259.3548545	165.9482841
138.0399728	0.252166667	233.1149387	138.3856714
137.8623391	0.299	237.8739038	140.5325995
139.6942882	0.354166667	240.6421531	142.2690097
138.4553955	0.395833333	235.2881017	139.2386586
139.1056074	0.425	236.2470729	139.6825694
143.9917823	0.396666667	241.6324729	142.9823077
139.8814386	0.366333333	236.4424038	139.7781433
140.274189	0.29	233.7202176	138.6021787
139.4944397	0.176	235.8929119	139.5137449
192.6671112	0.176833333	255.5683499	159.1130386
139.7215675	0.178	294.0136585	146.733441
140.8006857	0.240333333	294.7362304	146.0386024
138.142623	0.33	303.6826678	139.7167447
137.6733437	0.311666667	306.2062229	138.6295921
193.747258	0.286833333	312.2251332	137.1608252
193.747258	0.241	318.5676678	193.747258
193.747258	0.125333333	337.3642862	193.747258
164.9311623	0.146833333	74.02306604	156.6744823
159.1969745	0.3515	98.1781429	171.1424374

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223.3277348	137.0583727	0.535833333	246.7273879	147.4774272	140.6832111
207.9911873	143.2665094	0.526	232.4478875	138.1656805	145.825699
189.1092596	169.107327	0.457833333	211.2827927	141.0222437	168.3794639
175.4894316	180.1385432	0.405166667	196.8195241	155.423175	168.3230082
179.164831	190.9837803	0.376	196.7913038	155.4642179	179.3793629
179.6695182	192.6393261	0.332333333	200.7943522	150.2061709	179.827697
196.505299	155.8835387	0.352333333	218.5101015	137.8835858	150.9771127
220.8301824	137.3636126	0.456333333	235.180497	139.1914541	137.8583098
231.3381229	137.8425319	0.522	242.3102342	143.4994237	139.6520428
240.7438473	142.3399724	0.582666667	248.5084508	149.4000142	146.8105894
245.3666528	146.1357173	0.706333333	250.8468074	152.2284953	152.890754
251.7062295	153.3600634	0.638333333	252.5953726	154.5854919	161.0112082
243.3881593	144.3714286	0.588833333	246.0818013	146.8274815	152.1958144
242.8202795	143.9043684	0.456166667	248.7341959	149.6576659	149.8095836
255.4260531	158.8804647	0.385166667	253.6904756	156.1741252	171.3855043
267.2104299	184.9645911	0.3055	263.2048353	174.3435738	174.1445834
267.6140986	186.1588813	0.341666667	263.1832889	174.2919995	180.7896647
257.8886583	163.1481895	0.3695	255.608527	159.1790063	163.7063874
253.0104304	155.1771199	0.4385	255.7891841	159.4772793	162.5604854
254.1507304	156.8688028	0.535	259.0713896	165.3909863	163.4218475
251.6880906	153.3356497	0.531166667	256.6468437	160.9306724	156.4357831
255.1933967	158.5037673	0.337	259.9305569	167.1044267	160.4554671
237.9184365	140.5576105	0.2705	244.7908116	145.5998432	140.5058845
240.8704409	142.4290362	0.260338983	246.2688299	147.0132636	141.9443451
238.8740074	141.1170384	0.199166667	250.8422374	152.2226142	142.4367736
191.7123854	163.8901008	0.146	210.7893228	141.3245861	160.1846058
164.6709017	157.673698	0.247	179.1085413	190.8018076	168.1515914
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219.7165396	137.5845525	0.329833333	224.9849415	137.0000047	137.176146
248.1363182	148.9822521	0.335166667	257.0491282	161.6341032	152.9582696
258.4659567	164.2265208	0.331	255.5055514	159.010194	166.5351637
235.9700239	139.5500146	0.278	238.6456423	140.9793717	139.2387576
244.2125595	145.0803582	0.3695	250.3986002	151.6584283	143.7834313
245.1389057	145.921544	0.477	252.9763191	155.1280192	145.7532153
239.7100412	141.6425811	0.537333333	250.3705879	151.6232493	142.7399711
237.564171	140.3612328	0.546833333	244.8890124	145.6899101	141.2098299
244.2338776	145.0991818	0.548333333	243.9239827	144.827998	144.2253174
237.8472094	140.517652	0.4795	236.0741523	139.5994228	139.9441642
236.142282	139.6320184	0.405833333	236.0772995	139.6009238	139.5273275
234.8940017	139.0683186	0.305166667	234.4933369	138.9022963	139.2446999
254.0443066	156.7067258	0.263166667	247.425674	148.2082191	164.1737737
283.8254559	160.1226133	0.215	273.0427169	184.2280634	157.7014213
285.9865866	156.6598411	0.338	280.9964419	165.2587816	152.1894777
297.7344491	143.4645974	0.4185	293.2168467	147.5347196	142.2146712
302.5260648	140.3121571	0.449833333	297.5182264	143.6340909	140.0622959
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325.637802	193.747258	0.248333333	317.6396757	193.747258	193.747258
57.49804569	140.3252324	0.138333333	10.00233399	167.2413485	157.2930564
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8/9/2019	2330	0.298	155.7463516
8/9/2019	2331	0.263666667	168.3494218
8/9/2019	2332	0.331333333	178.5366955
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8/9/2019	2334	0.272666667	166.7530565
8/9/2019	2335	0.216333333	170.445077
8/9/2019	2336	0.182372881	196.237898
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8/9/2019	2339	0.095	128.8549996
8/9/2019	2340	0.106	187.7499453
8/9/2019	2341	0.211	229.477915
8/9/2019	2342	0.171833333	241.8981487
8/9/2019	2343	0.202666667	233.8879766
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8/9/2019	2346	0.088	196.1641225
8/9/2019	2347	0.087333333	134.0930642
8/9/2019	2348	0.0275	195.6741692
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8/10/2019	0007	0.194333333	346.2036498
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8/10/2019	0015	0.209166667	324.9407574
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8/10/2019	0017	0.310166667	328.7267935

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156.2811667	0.225666667	193.0764828	161.4129468
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Yes	3.043
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8/10/2019	0117	0.17440678	44.12927453
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8/10/2019	0121	0.227166667	354.653236
8/10/2019	0122	0.2495	353.2968564
8/10/2019	0123	0.279	357.303319
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102.6288792	162.2073662	0.158833333	89.01072149	190.4868372	163.9420308
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297.8845398	143.3483781	0.442333333	300.4689607	141.5271919	143.4738999
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332.2840379	193.747258	0.245666667	331.6604829	193.747258	193.747258
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296.0368894	144.8619486	0.306166667	299.579768	142.1159508	157.8185043
294.8650181	145.9178798	0.4125	298.3373404	143.0048348	145.5136529
296.0735434	144.8301421	0.431666667	299.6160644	142.0911512	143.5650253
292.0581933	148.7673113	0.428	295.6241594	145.2251712	147.475446
292.0312665	148.7969269	0.4415	298.1091663	143.1766284	147.3069943
287.6510709	154.2401575	0.486166667	294.3978837	146.3602441	153.1298365
286.5779845	155.7763899	0.554666667	291.3782673	149.5289062	154.23226
284.3630677	159.2257259	0.4375	288.3812519	153.2425322	156.2507149
274.7596671	179.4740684	0.4425	279.6544075	167.9585359	168.947445
275.0627292	178.6767604	0.416166667	278.4677682	170.4993521	169.9584815
274.9549303	178.9589754	0.393333333	278.7003331	169.9895858	170.7412877
279.0493019	169.2355736	0.431166667	279.3022002	168.6972034	163.7249516
289.5270272	151.7520838	0.363333333	288.8544359	152.6160678	147.9821774
279.4911439	168.2993443	0.291666667	282.5598809	162.3314057	161.2063448
232.665171	138.2352056	0.300833333	243.1799987	144.1982275	139.9794442
222.916504	137.0906296	0.364166667	230.2865264	137.5852336	137.2923547
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209.9809033	141.8455125	0.262166667	224.4309308	137.0067576	139.4355042
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207.1097688	143.9609747	0.250666667	213.9603905	139.5829775	146.3163534
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213.4201062	139.8464698	0.426	217.0124083	138.3421701	138.8812626
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221.3864421	137.2729202	0.339333333	224.5033173	137.0051477	137.8969073
222.9761493	137.0855122	0.309666667	227.0511019	137.0878318	137.7732821
228.851925	137.3101841	0.3595	228.857796	137.3111322	138.0687466
232.3642352	138.139462	0.354333333	233.2079196	138.4178826	138.8096215
239.3122716	141.3882958	0.2355	243.2898696	144.289357	148.4460531
243.5238572	144.4855886	0.177166667	264.0954674	176.5244861	150.5609981
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268.4306872	188.6515573	0.087333333	243.5915821	144.5429353	178.4799708
217.4286702	138.2049264	0.0975	211.0810693	141.1444155	142.0214882
187.2437784	173.2810509	0.177	192.9893609	161.5661906	174.4180365
169.4339331	166.1051515	0.216166667	176.3347957	182.4566771	176.0847486
133.962258	137.0224742	0.310833333	140.123897	137.5496618	137.7497076
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151.3980054	142.8089239	0.159666667	139.598768	137.442482	153.1426439
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317.8845683	193.747258	0.272333333	323.2975617	193.747258	193.747258
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8/10/2019	0257	0.151666667	215.9319417
8/10/2019	0258	0.208474576	206.9676283
8/10/2019	0259	0.248	179.5470725
8/10/2019	0300	0.319	167.5031159
8/10/2019	0301	0.300333333	177.1045612
8/10/2019	0302	0.178833333	201.9400937
8/10/2019	0303	0.189	243.548053
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8/10/2019	0311	0.154166667	272.765178
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8/10/2019	0314	0.256333333	238.391696
8/10/2019	0315	0.283666667	239.5833775
8/10/2019	0316	0.253833333	244.7435308
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8/10/2019	0321	0.261166667	317.9798262
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138.7339209	0.168166667	195.0456059	158.1213584
144.076797	0.210833333	193.5906438	160.521974
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162.4450278	0.295666667	173.8574138	175.9320625
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193.747258	0.540833333	332.2484623	193.747258
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193.747258	0.666666667	337.2433561	193.747258
193.747258	0.702166667	335.5196595	193.747258
193.747258	0.511333333	336.1331531	193.747258
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193.747258	0.445166667	343.0707154	193.747258
193.747258	0.451	346.3886032	193.747258
187.1490736	0.413833333	355.2601762	193.747258
163.335505	0.328166667	8.324510279	170.8162919
193.747258	0.2305	322.3010774	193.747258
163.0351694	0.251166667	289.4904313	151.7983045
138.191387	0.2855	311.9999273	137.1880205
168.0840339	0.279833333	358.7255309	193.747258
193.747258	0.284745763	347.6232297	193.747258

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282.4398605	162.5481832	0.336333333	290.4981274	150.5581006	166.7172723
252.8015051	154.8777346	0.293666667	269.2155579	191.1482254	157.2247555
228.4415366	137.2475161	0.246333333	247.0803208	147.8431418	141.0433525
216.0244342	138.6983666	0.309	224.2668121	137.0112177	143.1412159
208.0144099	143.2487606	0.408333333	213.6160719	139.7493475	146.8992198
183.9373192	181.699683	0.472881356	191.4363035	164.4121578	182.1369714
171.2985067	169.9870574	0.629	180.366896	192.5184135	175.2206403
179.6158472	192.4611929	0.634166667	186.3659866	175.3824555	185.2965352
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228.7862574	137.2996791	0.296166667	224.3122143	137.0098714	138.9553439
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321.0159088	193.747258	0.207833333	308.0689896	138.0085424	179.8125791
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233.8613914	138.655001	0.250666667	253.0914084	155.2940269	143.1781635
234.3463932	138.8432075	0.402166667	235.3781918	139.2785823	139.5418197
231.2519521	137.8196648	0.475	230.5773493	137.6516568	138.3362528
234.6371779	138.9610719	0.472166667	234.8232413	139.0384745	139.5618346
234.2370663	138.7998697	0.463333333	232.4324753	138.160827	140.1862596
252.3021928	154.1751626	0.384833333	242.5105251	143.6568131	155.7745879
266.8491791	183.9164116	0.331166667	264.8597288	178.474697	181.4383867
291.054957	149.9012231	0.359166667	292.8906058	147.8735993	147.1003759
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334.5643002	193.747258	0.877	337.9863835	193.747258	193.747258
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340.8154937	193.747258	1.008833333	340.7407629	193.747258	193.747258
339.31894	193.747258	1.0435	340.7923352	193.747258	193.747258
340.6498301	193.747258	0.7985	345.1204905	193.747258	193.747258
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348.3448886	193.747258	0.617166667	348.5210823	193.747258	193.747258
349.6957553	193.747258	0.641525424	349.3364408	193.747258	193.747258
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298.9027841	142.5906028	0.287833333	309.6452942	137.6004817	148.7561396
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356.0989479	193.747258	0.453666667	353.9366086	193.747258	187.331452
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8/10/2019	0349	0.163666667	355.2686503
8/10/2019	0350	0.143666667	342.8844404
8/10/2019	0351	0.2045	41.91538491
8/10/2019	0352	0.180333333	42.19951433
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8/10/2019	0354	0.227	64.62278611
8/10/2019	0355	0.240666667	75.18218795
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8/10/2019	0357	0.196833333	54.93024611
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8/10/2019	0359	0.2885	338.9952741
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8/10/2019	0405	0.133333333	300.6356332
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8/10/2019	0416	0.185833333	315.9394298
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8/10/2019	0418	0.200833333	247.1012488
8/10/2019	0419	0.172166667	259.0458499
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8/10/2019	0421	0.168333333	276.7582392
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8/10/2019	0425	0.125833333	331.0086421
8/10/2019	0426	0.115666667	305.0232756
8/10/2019	0427	0.092833333	330.9291227
8/10/2019	0428	0.109666667	2.291597205
8/10/2019	0429	0.115833333	38.33754577
8/10/2019	0430	0.172666667	65.13588459
8/10/2019	0431	0.269	77.89408974
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144.4755251	0.158	12.69934047	162.0811346
137.216846	0.256333333	37.46203857	138.1942521
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193.747258	0.207	357.7504419	193.747258
193.747258	0.1525	350.2059852	193.747258
137.1987797	0.243833333	29.66616534	142.0570276
137.1638116	0.233666667	35.51816581	138.8976361
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159.0707351	0.324333333	10.72138679	165.797624
193.747258	0.373	344.5564458	193.747258
193.747258	0.326666667	329.9363758	193.747258
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175.691622	0.157833333	270.351337	192.5700488
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184.7551098	0.090166667	272.3003232	186.4152486
141.4211594	0.149666667	301.3383399	140.988946
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186.4414521	0.1415	348.2885585	193.747258
137.9314663	0.153166667	20.2783629	150.8228692
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358.6957107	193.747258	0.501166667	356.169515	193.747258	193.747258
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318.495553	193.747258	0.248166667	319.2028052	193.747258	166.3017427
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263.3135294	174.604591	0.168	276.8882664	174.1211173	171.2610461
265.9884767	181.4950528	0.124833333	279.6701412	167.9258372	173.3524234
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8/10/2019	0435	0.225166667	53.90172423
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8/10/2019	0437	0.255833333	5.055443718
8/10/2019	0438	0.262166667	358.3491522
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8/10/2019	0440	0.34	0.342046138
8/10/2019	0441	0.387166667	1.177996048
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354.4918516	193.747258	0.641694915	352.7372684	193.747258	193.747258
356.2840367	193.747258	0.502333333	355.1608354	193.747258	192.7215767
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Yes	14.15
Yes	12.45
Yes	5.567
Yes	5.279
Yes	2.828
Yes	9.37
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Yes	3.397
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Yes	4.714
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Yes	5.778
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8/10/2019	0530	0.26	309.2090173
8/10/2019	0531	0.164833333	275.3796382
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8/10/2019	0546	0.195	121.0086919
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8/10/2019	0600	0.182666667	28.70899559
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137.1329447	0.33	37.26911651	138.2566374
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137.1935437	0.4865	43.71886471	137.0342551
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169.7924085	0.511833333	77.93644183	163.2362782
183.6447897	0.394833333	86.4108652	182.6701619
185.2201909	0.236666667	85.73465551	180.8008563
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140.5751947	0.445166667	52.44196052	138.1638128
139.654171	0.448166667	51.45183079	137.8731957
150.3909994	0.3795	62.99143323	144.0433285
176.1851108	0.149666667	71.16874314	152.6463938
140.0469002	0.1505	31.26101118	141.0353412
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144.7327833	0.3075	24.45912263	146.3015454

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337.6305258	193.747258	0.739333333	340.1361943	193.747258	193.747258
334.3153303	193.747258	0.6795	335.9757911	193.747258	193.747258
330.4926814	193.747258	0.575	332.3418014	193.747258	193.747258
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260.6918262	168.6845677	0.291333333	269.1593656	190.9660886	169.7841708
263.6937894	175.5289175	0.330333333	277.2281316	173.3177132	168.3314988
272.7174346	185.1762111	0.3045	285.6662797	157.1495405	174.4895893
300.8174548	141.3070332	0.210833333	312.1462552	137.170108	144.067728
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18.84123393	152.6333359	0.407833333	8.063607073	171.399305	154.2978551
19.32238297	152.0117089	0.362333333	6.508813121	175.0342623	155.858309
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71.71843436	153.3765034	0.200166667	45.77247622	137.0124523	162.5713527
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117.3497346	143.7678676	0.227166667	107.4583503	154.5098361	144.2577194
115.3194379	145.4993671	0.2215	114.5188198	146.2445306	143.5557835
107.187295	154.8937023	0.190166667	117.1538085	143.9253067	161.5623325
106.4703514	155.9351983	0.325166667	112.7753612	147.9948293	158.7434698
89.97849641	193.674584	0.333	93.47844775	182.9822701	188.8868003
71.42698815	152.9867782	0.519661017	70.91059025	152.310727	155.0637415
68.80283808	149.7366475	1.081	67.60299214	148.3984642	151.260139
75.00691361	158.2049964	1.163166667	78.69838348	164.6694435	162.1467005
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44.67709059	137.0021758	0.615666667	46.56228254	137.0509447	137.6772513
39.6699275	137.5949497	0.430166667	37.83644466	138.0778046	137.7655841
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57.92920265	140.5636713	0.873	56.08634556	139.6052408	141.3948493
45.4253318	137.0037749	0.7405	45.1255704	137.000329	137.0579757
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32.5348158	140.3074182	0.391666667	22.50325524	148.284242	144.4060943
61.34622888	142.7710151	0.416	57.8130598	140.498579	145.4019817
69.15604021	150.1477874	0.6155	71.26644859	152.774633	154.4964934
73.35086609	155.6718905	0.661166667	72.62363937	154.6253833	160.8314901
82.92968923	173.6891004	0.494833333	82.12003013	171.8141941	177.9545616
82.80336521	173.3916003	0.278833333	95.28319349	178.1043103	179.3792395
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73.68390989	156.1643326	0.267166667	68.85245106	149.7939194	158.6974392
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33.56003493	139.7769393	0.408666667	34.52412563	139.3222859	139.8829873
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26.7179202	144.2828747	0.551166667	26.99912724	144.0510377	143.0298881
38.88064637	137.7851005	0.574237288	39.81724689	137.5624053	137.745365
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8/10/2019	0809	1.0575	39.55384417
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45.53286206	137.005925	1.528333333	47.28600636	137.109116	137.0786056
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Yes	3.532
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126.4371716	138.5443278	1.797166667	128.9114265	137.777185	138.5261707
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8/10/2019	1529	1.167666667	336.6432598
8/10/2019	1530	0.892833333	38.09800987
8/10/2019	1531	1.174166667	25.06564364
8/10/2019	1532	1.0365	10.76094899
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8/10/2019	1534	0.577	33.52911672
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137.7422215	0.413	34.69448001	139.2463489
193.747258	0.497	350.44716	193.747258
193.747258	0.3595	319.2885421	193.747258
154.367652	0.8155	19.71824945	151.512031
193.747258	0.706833333	8.774103223	169.8291066
147.5241977	0.755166667	19.84030835	151.3600803
193.747258	0.708166667	331.3324713	193.747258
193.747258	0.660666667	327.0160126	193.747258
145.0344846	1.2475	28.75916731	142.6942698
143.6159117	1.091166667	19.74216918	151.4821752
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193.747258	0.865	321.4748039	193.747258
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142.2966292	1.179	61.22389044	142.6819859
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193.747258	1.0475	349.3284237	193.747258
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165.7196687	1.245666667	3.62557102	182.5678032
193.747258	0.926	353.3472731	193.747258
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14.67178937	158.7215096	0.886666667	12.80406373	161.894337	154.8750311
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19.83575304	151.3657333	1.009166667	24.48740402	146.2745094	150.9448647
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318.9410745	193.747258	1.733666667	319.3899186	193.747258	193.747258
316.3620018	193.747258	2.117333333	318.0421995	193.747258	165.4237403
302.6039133	140.2701255	1.415166667	303.7486917	139.6846232	141.7295756
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91.88396549	187.6786808	0.854833333	105.7635451	156.9999945	171.9433387
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128.1918069	137.9729068	1.962666667	129.8191776	137.5619849	137.8273139
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57.50282632	140.3278282	1.3025	60.27287576	142.015677	141.8305301
85.22185126	179.4250985	0.942	91.31322801	189.4550607	185.6281933
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140.3164962	137.5919118	1.487666667	146.478835	139.7961631	137.9609853
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169.1834884	165.6104424	1.5765	175.3340043	179.7229642	170.0733607
161.9020288	153.6250737	1.377	169.8676541	166.9764984	158.1898281
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8/10/2019	1541	0.947833333	42.60570611
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8/10/2019	1543	0.744166667	32.35772584
8/10/2019	1544	0.4835	93.55677515
8/10/2019	1545	1.001666667	73.93304167
8/10/2019	1546	1.368833333	68.51404408
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8/10/2019	1548	0.548	54.88465372
8/10/2019	1549	0.9305	74.98712633
8/10/2019	1550	0.8215	93.27661046
8/10/2019	1551	0.771355932	107.9209862
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92.24143626	186.5923091	0.823833333	91.92717607	187.5463015	174.3854435
86.57503347	183.1337005	1.149666667	86.12492376	181.8719199	186.2588198
114.6556795	146.1145861	0.919	112.4165671	148.3773853	147.1756784
106.1834394	156.3628141	1.096333333	107.9805734	153.7852712	155.4239643
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43.21967544	137.0661635	0.550833333	49.40414294	137.4057313	137.3643019
27.15659937	143.9230498	0.743166667	29.67187733	142.0531451	143.2774217
20.35502304	150.7301528	0.746666667	27.8452989	143.3786502	144.288345
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14.12745016	159.6158329	0.256833333	25.42194626	145.4065529	154.6995263
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167.8647916	0.522166667	102.3011718	162.8002922
138.6900012	0.455833333	132.2787669	137.1546625
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163.0736344	0.496333333	70.34453223	151.5905747
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137.4728971	0.386333333	312.3776628	137.1436156
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148.3877023	1.028833333	20.57124977	150.4707005
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156.4345043	0.886333333	71.70572359	153.3593822
167.215299	0.824166667	78.39306152	164.0886543
142.0282552	0.714333333	65.84669504	146.5968201
142.7266658	0.741333333	66.99615691	147.7552559
159.8837171	0.866333333	73.32501438	155.6340154
137.0000222	0.540333333	42.60372567	137.1199044
160.4373926	0.8165	76.76537542	161.1364739
150.4057766	0.828333333	68.86089091	149.8036777

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23.98337911	146.7632131	0.805833333	23.92484845	146.8209136	144.4063644
33.7380193	139.6898019	0.514666667	33.91283706	139.6056311	139.89832
196.6444343	155.6787813	0.723833333	201.9904778	148.8418738	149.8301732
347.9955668	193.747258	1.159833333	352.5304526	193.747258	193.747258
355.4029636	193.747258	1.340166667	353.1754209	193.747258	193.747258
323.3322176	193.747258	1.30220339	322.0307584	193.747258	193.747258
285.8329327	156.8937606	0.4555	295.5149002	145.3228938	161.0370459
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14.99361279	158.204157	0.8475	15.57049618	157.2975301	156.8588706
18.81875242	152.6627692	0.790833333	11.04709617	165.1603441	152.7055484
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28.99136343	142.5271848	1.280666667	30.76430895	141.3402257	142.9422295
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25.0311986	145.7634878	0.850166667	28.24271752	143.0757515	144.863449
18.74574612	152.7585913	1.449	19.80526575	151.4036032	152.3550146
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101.1253253	165.0088034	0.688333333	106.0974674	156.4921694	162.4752552
98.9798968	169.3845028	0.54	104.9453191	158.2812589	164.5827114
126.5698656	138.4964031	0.535666667	138.8912724	137.3165658	137.9144082
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169.824044	166.8880392	0.837166667	175.2408982	179.4755668	179.2739738
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58.98840558	141.1869466	0.400333333	69.38206425	150.4150797	143.8683304
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319.1921902	193.747258	0.492666667	318.4179198	193.747258	179.6642055
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335.8536673	193.747258	1.258	333.1711458	193.747258	193.747258
1.587965285	188.5934457	1.269	3.50411148	182.9097494	186.7206583
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61.25666072	142.7057591	1.074745763	60.66564678	142.2853576	143.404048
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8/10/2019	1900	0.895166667	46.38853584
8/10/2019	1901	0.844166667	49.41583372
8/10/2019	1902	0.664333333	50.41246182
8/10/2019	1903	0.739	50.07578849
8/10/2019	1904	0.778833333	46.53352447
8/10/2019	1905	0.641333333	48.24097074
8/10/2019	1906	0.662666667	44.40817526
8/10/2019	1907	0.7735	43.59412325
8/10/2019	1908	0.724333333	44.8696961
8/10/2019	1909	0.818	47.06747248
8/10/2019	1910	0.802	48.98662216
8/10/2019	1911	0.963666667	43.57553451
8/10/2019	1912	0.789833333	48.7566713
8/10/2019	1913	0.756779661	46.91542497
8/10/2019	1914	0.695333333	50.14896903
8/10/2019	1915	0.771	47.6745513
8/10/2019	1916	0.703166667	47.60432541
8/10/2019	1917	0.711	47.11368317
8/10/2019	1918	0.893833333	43.78519165
8/10/2019	1919	0.663833333	47.18376828
8/10/2019	1920	0.826333333	48.36306142
8/10/2019	1921	0.530333333	39.54519325
8/10/2019	1922	0.838666667	46.1339013
8/10/2019	1923	0.745166667	46.63282193
8/10/2019	1924	0.683666667	42.15325108
8/10/2019	1925	0.755833333	40.43880854
8/10/2019	1926	0.7465	38.04191063
8/10/2019	1927	0.730166667	34.33324155
8/10/2019	1928	0.791333333	33.70408646
8/10/2019	1929	0.744833333	33.73176593
8/10/2019	1930	0.702833333	35.55689026
8/10/2019	1931	0.5065	32.13025611
8/10/2019	1932	0.589666667	36.90339182
8/10/2019	1933	0.5105	33.02166152
8/10/2019	1934	0.518333333	31.01609112
8/10/2019	1935	0.35	28.72226188
8/10/2019	1936	0.433166667	26.75586
8/10/2019	1937	0.268166667	12.12307974
8/10/2019	1938	0.318	12.95340524
8/10/2019	1939	0.346166667	15.35834473
8/10/2019	1940	0.1625	14.56322064
8/10/2019	1941	0.130833333	16.52588924
8/10/2019	1942	0.134333333	13.30889291
8/10/2019	1943	0.109	9.951307309
8/10/2019	1944	0.137	356.446096
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8/10/2019	1947	0.212881356	351.6856828
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8/10/2019	1949	0.245	348.6688494
8/10/2019	1950	0.268	12.10721638

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137.0073089	0.7995	39.75214428	137.5766731
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137.0892402	0.928166667	42.85373318	137.096176
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137.0423507	1.139833333	42.53694418	137.1266859
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137.0268328	0.935166667	42.47748336	137.1328814
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139.4089376	0.876666667	35.37688596	138.9552843
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139.6928387	0.7935	31.277275	141.0255594
138.8819906	0.7515	36.86467435	138.3927015
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144.2513494	0.4535	30.5965122	141.4459254
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158.8979381	0.244333333	14.58925042	158.855551
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193.747258	0.173666667	345.2447468	193.747258
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193.747258	0.3095	341.2786965	193.747258
193.747258	0.31	347.4464755	193.747258
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47.1426202	137.0958493	0.939333333	51.00312046	137.755423	137.3976382
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42.43671422	137.137215	1.117666667	40.59113284	137.4066044	137.1930611
38.88312938	137.7844604	1.174833333	37.78887342	138.0922624	137.6151762
38.15399799	137.9838076	1.196333333	38.40292698	137.9131733	137.6665874
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41.18915564	137.303591	1.292	39.58335061	137.6145071	137.2758786
41.31766695	137.2834259	1.363666667	39.19761825	137.7055333	137.3653632
42.02311995	137.1851214	1.455	41.44277042	137.2644644	137.1546556
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43.3028475	137.0601237	0.9475	43.1060322	137.0748839	137.06703
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35.99555748	138.7094261	1.08	40.98908734	137.3363716	138.6025049
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33.92006578	139.6021808	0.861833333	39.61540418	137.6072291	139.3946929
39.0715813	137.7366556	0.879666667	43.78910933	137.030601	138.0047701
34.1809421	139.4792622	0.7475	42.6602992	137.1143057	138.8854416
29.91522026	141.8892484	0.692	40.94457983	137.3438939	140.0149508
29.8101281	141.9596696	0.609166667	39.70883355	137.586265	141.5678248
28.06354871	143.2112963	0.588	41.50321593	137.2555391	141.5410276
17.55004568	154.3811892	0.467166667	31.92838693	140.6443567	153.8655414
16.66071237	155.6549208	0.5485	27.97318039	143.2802911	155.9343618
19.78675825	151.4266224	0.559333333	31.99180903	140.608305	150.6022614
14.90481314	158.3460724	0.4065	28.52298637	142.8670346	154.741649
13.35215339	160.9324087	0.320833333	26.1649871	144.7511108	156.8263557
15.57409444	157.2919576	0.278166667	26.65402033	144.3361452	156.5577659
9.580522926	168.1124278	0.235833333	13.42843519	160.8005988	167.3860624
359.2014046	193.747258	0.223666667	2.929580651	184.5560606	191.4494587
355.2695114	193.747258	0.267333333	2.424799276	186.0427245	191.8211247
358.3043755	193.747258	0.364	340.8094807	193.747258	191.3212307
341.6639474	193.747258	0.362166667	330.0081018	193.747258	193.747258
349.0276843	193.747258	0.378	352.550897	193.747258	193.747258
354.7999013	193.747258	0.403	6.127089855	175.9704136	189.3030469
11.03870644	165.176631	0.510666667	21.62715566	149.2467799	161.4628269

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Yes	27.27
Yes	74.8
Yes	16.68
Yes	20.18
Yes	26.27
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Yes	13.81
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Yes	8.68
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Yes	8.7
Yes	26.03
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Yes	6.245
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8/10/2019	1952	0.278666667	34.70831938
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8/10/2019	1954	0.314833333	56.68675201
8/10/2019	1955	0.3845	60.20547168
8/10/2019	1956	0.3815	61.08759454
8/10/2019	1957	0.366333333	58.93218271
8/10/2019	1958	0.396666667	64.99951193
8/10/2019	1959	0.395333333	65.35649832
8/10/2019	2000	0.331666667	54.80768112
8/10/2019	2001	0.289833333	65.91755191
8/10/2019	2002	0.212	79.82051754
8/10/2019	2003	0.2085	76.06451615
8/10/2019	2004	0.313166667	62.72033341
8/10/2019	2005	0.367166667	56.34459957
8/10/2019	2006	0.3885	64.46122922
8/10/2019	2007	0.31	56.18865924
8/10/2019	2008	0.322833333	51.65917135
8/10/2019	2009	0.269166667	45.27695898
8/10/2019	2010	0.193333333	40.66579212
8/10/2019	2011	0.182166667	32.03110421
8/10/2019	2012	0.16	43.78823851
8/10/2019	2013	0.171166667	52.25962408
8/10/2019	2014	0.173833333	63.86817246
8/10/2019	2015	0.206833333	71.29956091
8/10/2019	2016	0.260166667	61.68604377
8/10/2019	2017	0.2445	55.56223916
8/10/2019	2018	0.184	51.88836433
8/10/2019	2019	0.196	50.44043807
8/10/2019	2020	0.230833333	48.41125282
8/10/2019	2021	0.208305085	51.91521382
8/10/2019	2022	0.172666667	43.7918001
8/10/2019	2023	0.122	33.12300964
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8/10/2019	2026	0.1605	19.70315558
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8/10/2019	2028	0.200833333	357.6295017
8/10/2019	2029	0.155	2.420423281
8/10/2019	2030	0.145833333	19.0757895
8/10/2019	2031	0.1985	7.606556935
8/10/2019	2032	0.2505	5.652718517
8/10/2019	2033	0.256833333	4.699420981
8/10/2019	2034	0.317	2.405293092
8/10/2019	2035	0.357333333	356.6812217
8/10/2019	2036	0.372833333	359.5694402
8/10/2019	2037	0.37	6.103022808
8/10/2019	2038	0.399333333	12.17800084
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8/10/2019	2040	0.31	19.55312641
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146.6660011	0.410333333	62.15636166	143.379933
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159.9370871	0.345166667	75.83059536	159.5460324
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62.57549899	143.7083215	0.655	68.88364586	149.8300098	146.2957649
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38.92187294	137.7745079	0.571166667	50.25910073	137.5791558	137.5247546
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54.51209744	138.9099097	0.432166667	58.41844944	140.8448961	144.3838382
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51.0622747	137.7704542	0.508833333	56.97549771	140.0479441	139.1003334
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8/10/2019	2049	0.199333333	59.25778002
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37.82689622	138.0806987	0.515833333	34.07850643	139.5271567	138.4774287
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Yes	6.31
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Yes	4.608
Yes	7.68
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8/10/2019	2321	0.235166667	48.60379937
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8/10/2019	2341	0.4075	7.611807963
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139.455652	0.631666667	34.66695696	139.2585286
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9.822021331	167.6114925	0.503666667	26.33074986	144.6090063	165.3250907
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66.32931452	147.0737813	0.475166667	70.48943205	151.7728607	152.5125562
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43.96620662	137.0223034	0.628166667	56.01248651	139.5701029	137.6889158
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29.24144176	142.3502807	0.533	35.72530219	138.8147269	141.7062496
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7.88703131	171.7981705	0.523833333	8.841951901	169.6820243	173.2064536
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31.3769736	140.9658745	0.846333333	36.50313809	138.5204059	141.1577449
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138.1294211	0.2105	242.9041236	143.9722475

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216.6584584	138.4648382	0.4965	224.7329309	137.0014883	138.8798168
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186.9779052	173.9079042	0.248666667	200.7570658	150.2501576	167.2560644
164.0823092	156.7645008	0.233333333	184.2483489	180.8470623	154.9110475
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8/11/2019	0156	0.061	267.8620827
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8/11/2019	0206	0.334	13.19940196
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61.50036847	142.8842732	0.951333333	66.82608266	147.5789501	143.811539
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58.50524535	140.8959789	1.013	65.31987579	146.0914885	141.6694118
58.26716657	140.7567204	0.935666667	63.02007514	144.0667348	141.3200555
58.56381626	140.9306539	0.935166667	63.60148478	144.5513412	141.6185949
59.73679734	141.6599638	0.916666667	64.81399256	145.6210555	142.0047358
61.09331929	142.5878047	0.957666667	65.49183507	146.2546918	143.0036398
60.22802933	141.9853741	0.984166667	65.29345847	146.0665652	142.5955428
60.81133465	142.3873521	1.070333333	65.27844305	146.0524165	143.6310456
60.38677283	142.0930874	1.129333333	65.66878047	146.4243868	142.1941821
61.92931823	143.2058683	1.065166667	66.63308449	147.3809602	144.0022769
61.22255395	142.6810175	1.012833333	67.16575075	147.9327832	142.9008359
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66.70399601	147.4534496	1.003166667	71.52044742	153.1111057	148.6875108
70.54470759	151.8427698	0.977166667	74.33066182	157.1448267	154.9377892
73.97657242	156.604026	0.956666667	76.729906	161.0747624	157.5680627
78.60659133	164.4939116	0.981333333	80.90348903	169.1345639	167.5008679
75.72714056	159.374538	1.0155	80.53535026	168.3549096	161.1406113
79.16457889	165.5733379	1.006666667	82.50128315	172.6876883	167.7827609
80.61420678	168.5207235	0.926666667	85.74185492	180.8204245	174.2593698
86.92545218	184.1361207	0.837666667	88.98784699	190.4134134	185.9519399
86.58215171	183.1538866	0.8885	89.93852649	193.5397178	188.1491624
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76.49483221	160.6685147	0.747166667	82.81535161	173.419749	161.8214285
76.73863196	161.0899342	0.738833333	85.25684034	179.5178457	161.9333248
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8/11/2019	0410	0.334666667	60.47772911
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8/11/2019	0412	0.392666667	58.0301003
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172.0553561	0.466166667	83.71155881	175.5725399
157.6972166	0.577333333	78.62383183	164.5268195
174.1697989	0.632333333	85.57749207	180.3754422
187.0372746	0.530166667	87.3603734	185.4053456
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175.1711891	0.513	86.82377321	183.8434172
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180.3973313	0.767	84.85478529	178.4618416
173.0722435	0.686666667	84.47341596	177.4796173
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146.7502792	0.525833333	70.95850852	152.3726881
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142.8377147	0.574166667	66.92866949	147.6850896
138.1805741	0.408333333	61.06827554	142.5698394
138.8610744	0.422666667	57.85000214	140.5192142
137.63022	0.4685	57.71693413	140.4451872
137.239864	0.368	57.56132491	140.359679
144.176003	0.4465	65.615853	146.3734404
142.1553703	0.435166667	67.02897346	147.7894733
160.5244442	0.531166667	75.88520871	159.6369225
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138.8920857	0.571	58.23900013	140.740424
142.4966909	0.5245	64.99719091	145.7897534
150.6475043	0.444833333	73.7030334	156.1928638
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151.2871678	0.551166667	72.04899214	153.8257699
150.1808006	0.5805	70.05818397	151.2344679
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79.09710644	165.4412248	0.732	83.39360648	174.797791	169.5837588
77.60132945	162.6228776	0.695833333	85.09023665	179.0776754	165.3801738
84.03449722	176.372085	0.753666667	85.39495669	179.8855512	183.8828415
81.03691658	169.4206578	0.847	85.9483408	181.3846901	174.608311
79.03140076	165.3129937	1.006333333	84.13270012	176.6177812	166.0387027
84.64197519	177.9114365	1.0035	88.83775452	189.9337892	180.5976167
85.65702712	180.5903094	0.882166667	90.13823677	193.2814933	186.5786057
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87.21517538	184.9784888	0.811166667	92.69974539	185.2282238	182.3053297
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86.53871101	183.0308099	0.948833333	90.32616299	192.6536817	185.6472665
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83.4643265	174.9690558	0.9585	89.36598927	191.6384444	181.8169198
79.145827	165.5365769	0.963	87.82392759	186.78947	170.8724278
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87.66467583	186.3102603	1.1645	93.63181317	182.5502863	185.3391492
92.60494047	185.5077848	1.044333333	96.61675329	174.7727529	180.0106595
94.25637632	180.8252332	1.1855	98.30049808	170.8696358	177.8707752
85.0554011	178.986103	1.209666667	91.7142015	188.20162	181.511724
85.00550937	178.8552304	1.083833333	90.33545088	192.6228127	180.507476
81.43956556	170.2955318	1.1745	90.02367835	193.6672387	172.4769567
79.57157975	166.3796652	1.098666667	86.42922397	182.721808	166.1075107
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69.60649712	150.683758	0.836	73.65002436	156.1138455	153.4094929
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77.1631165	161.8359953	1.057	78.56129673	164.4075891	162.8673331
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126.8532164	138.3966606	0.682166667	118.6824781	142.7500557	138.8827154
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8/11/2019	0604	0.399	26.58085116
8/11/2019	0605	0.400666667	52.96312867
8/11/2019	0606	0.453666667	58.34694466
8/11/2019	0607	0.488166667	75.3278202
8/11/2019	0608	0.479833333	93.85676048
8/11/2019	0609	0.405	102.4454169
8/11/2019	0610	0.391833333	109.1276866
8/11/2019	0611	0.379666667	119.4447433
8/11/2019	0612	0.289333333	127.3885145
8/11/2019	0613	0.229166667	124.2026741
8/11/2019	0614	0.355833333	113.092316
8/11/2019	0615	0.1965	93.27362774
8/11/2019	0616	0.375	72.48721767
8/11/2019	0617	0.465666667	69.89273648
8/11/2019	0618	0.578333333	67.61057977
8/11/2019	0619	0.507	66.15225268
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8/11/2019	0624	0.503	74.99319894
8/11/2019	0625	0.363	73.59932829
8/11/2019	0626	0.395	78.81124641
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8/11/2019	0629	0.435166667	89.91747735
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151.9527907	0.717666667	72.1239133	153.9286758
152.2508806	0.790666667	71.58890733	153.2025641
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161.6704145	0.695166667	79.30005211	165.839932
158.9829936	0.710166667	78.03873152	163.4255514
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142.1859559	0.460333333	56.63032342	139.8717498
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139.7316441	0.635	32.30908961	140.4308076
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72.60189627	154.5946933	0.906166667	75.33706001	158.7358542	156.883846
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75.71274944	159.3507526	0.684333333	80.11274153	167.4771938	160.0421332
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83.76315955	175.699434	0.774333333	85.46169077	180.0641323	182.0133881
87.63119432	186.2100054	0.783333333	94.30795543	180.6851834	187.5026364
88.77982084	189.7496541	0.895333333	93.45455559	183.0498693	189.163196
78.84896215	164.9591224	0.862	82.1588067	171.9022845	165.3181391
81.09663953	169.5493271	0.926166667	81.31393605	170.0206945	170.6830927
78.54764208	164.381604	0.788666667	82.69219657	173.1313288	164.2987668
73.62315406	156.0738727	1.046166667	77.33169805	162.1366858	156.9075229
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71.3666457	152.9068287	0.979	72.5486088	154.5196245	152.2038638
68.27130128	149.1327891	1.101333333	69.16656938	150.160166	148.2895502
71.3790407	152.9232305	0.9955	73.10823777	155.3183843	153.5307704
74.60655633	157.57298	1.053666667	75.74758171	159.4083523	155.6086943
78.37020377	164.0455258	0.942	80.87608502	169.0760375	166.3747474
82.3053784	172.2367892	1.250333333	84.95933986	178.7344127	174.5007684
78.59286879	164.4677388	0.915833333	78.70287101	164.6780453	164.1640327
78.03865501	163.4254095	1.031333333	81.40696058	170.2240385	164.0144982
68.07796275	148.9175222	0.835833333	75.8222649	159.5321903	149.2124865
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37.00607087	138.3443181	0.776666667	43.62845847	137.0392615	138.4949881
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8/11/2019	0659	0.684166667	86.03365225
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92.90623811	184.6239688	1.435	94.85561091	179.2203441	179.9132712
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93.23302866	183.6805578	1.573	96.05662976	176.1451651	180.2188421
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102.2027618	162.9802373	1.229833333	100.4051825	166.4261934	161.5276637
104.3201883	159.2963781	1.453166667	106.8981409	155.3091499	158.7911091
102.4366255	162.5540442	1.294666667	103.5485067	160.594136	159.3103484
112.3888512	148.4072615	1.6435	110.3235736	150.7681428	148.2497024
111.1896923	149.7452603	1.786333333	109.7283594	151.4994074	148.9666618
107.2749627	154.7689604	1.939833333	108.5195646	153.0578037	152.4632471
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115.0308106	145.7638465	2.240833333	115.4539579	145.3776881	145.3322702
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113.3388988	147.4095648	2.023833333	111.6878354	149.1785844	147.6543187
113.790403	146.9542052	2.250333333	114.2175854	146.5343102	145.8230956
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119.7115004	142.0262576	1.895166667	120.3329758	141.6147079	140.9304967
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112.515395	148.2712348	1.919833333	112.3567906	148.4418793	146.8186206
115.3418296	145.4790431	1.754	114.2873121	146.4667726	145.0172848
116.1050897	144.8028264	1.898333333	116.5455569	144.4270681	143.6562569
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164.8357139	157.933172	2.107666667	168.0774097	163.4973705	164.1673234
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163.7279191	156.2300336	3.361333333	169.1708856	165.585709	160.2415015
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180.4668957	192.1875456	2.734166667	183.2592245	183.6056083	183.535762
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178.7475076	189.6471895	2.269833333	184.1398324	181.1430205	188.6060693
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178.4178647	188.611603	1.975333333	183.3357178	183.3873208	187.6823363
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129.38553	137.6603949	1.4055	132.4220239	137.1387936	137.3801618
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8/11/2019	1930	0.2945	97.53164554
8/11/2019	1931	0.409166667	82.76651816
8/11/2019	1932	0.469833333	93.16561334
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8/11/2019	1934	0.427833333	111.8411584
8/11/2019	1935	0.44	108.0659091
8/11/2019	1936	0.621833333	111.4936948
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8/11/2019	1938	0.342	101.9438248

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143.4468681	1.066	113.0210375	147.7373532
141.1023123	0.718333333	114.8234452	145.9567469
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145.2638021	0.483166667	111.9962676	148.8354876
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139.3367653	0.811166667	122.2535107	140.4615569
137.0016082	0.803	132.2379809	137.159338
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138.6204829	0.724	127.0949359	138.3143583
138.8326672	0.794067797	123.7596404	139.6793158
139.2457869	0.859833333	124.2569474	139.4440346
137.7264535	0.6355	126.9953988	138.3479393
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138.0690998	0.863833333	128.9751568	137.7609254
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138.5849671	0.586333333	121.7406268	140.7522076
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145.7149881	0.3305	118.8110044	142.6567315
139.0168505	0.478166667	120.4279837	141.5534682
159.9779182	0.67	109.3895363	151.9262023
158.9627346	0.510833333	102.2533233	162.8876747
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173.3051739	0.516666667	83.8791713	175.9859174
183.8738996	0.636333333	92.83173046	184.8412669
164.7303077	0.693833333	100.747933	165.7452992
149.0072922	0.559833333	109.4637968	151.8320006
153.6687275	0.570166667	105.3756849	157.6007446
149.3975808	0.744666667	111.2261002	149.703314
149.6059844	0.642333333	108.6667936	152.8626329
163.4579245	0.456833333	100.6307074	165.9768791

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123.4565911	139.8282534	1.126	125.1015693	139.0701941	139.5342383
124.1912289	139.4744789	1.411016949	127.9099311	138.0556638	139.5720436
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116.0786923	144.82568	0.887666667	115.938661	144.9475478	143.9802276
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132.7616708	137.1046091	1.077	134.7034354	137.0018352	137.0668476
124.7118325	139.2386876	0.957833333	127.3835429	138.2194395	138.4462266
122.3661	140.3994177	1.0415	125.1359758	139.0556477	140.2509768
122.2202182	140.4800458	1.054666667	122.8746751	140.1261458	139.5274105
124.9044083	139.1545763	0.867833333	129.5739639	137.6166468	138.426516
124.0042016	139.5621982	1.272666667	126.3422998	138.5790685	139.1633124
122.708055	140.2143417	1.227833333	128.009807	138.0259473	139.2325276
129.5742354	137.6165848	0.880166667	133.1593838	137.0707227	137.6904251
124.5097168	139.3287691	1.1725	125.1334001	139.0567348	138.7745357
123.9394916	139.5929206	1.120666667	127.4453746	138.1995768	138.9857062
122.4998555	140.3263719	1.522166667	127.2595368	138.2597775	139.9464436
126.0997951	138.6696783	0.9805	130.4199108	137.4388852	138.0563698
122.0647008	140.5671057	1.089166667	128.4279794	137.9062128	139.7993857
126.5802527	138.4926844	1.059833333	130.2444181	137.4732613	138.454871
126.6906711	138.4534466	1.145333333	132.0138892	137.1862726	137.8674361
116.0226321	144.8743401	0.9345	117.9553111	143.2939842	142.8689545
116.8430383	144.179202	0.926833333	119.769788	141.9868466	142.9976917
123.6490339	139.7331851	1.089	125.4934198	138.907669	139.0343927
134.3665888	137.0083722	1.024	138.6541154	137.2790914	137.1283848
113.9848116	146.7618034	0.9385	113.813111	146.9316183	145.0063628
122.6752075	140.2318818	0.755166667	124.0752988	139.5286642	139.7744301
121.1169931	141.1225151	0.641833333	126.1334033	138.6569655	140.4998356
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125.3695901	138.9582856	0.647118644	127.9758244	138.0360098	139.3911535
114.6799636	146.0916402	0.828833333	120.742052	141.3541671	149.837482
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98.21475701	171.0606299	0.907666667	103.8456318	160.0885169	165.4061884
103.247264	161.1144707	0.7495	111.2278611	149.7012873	152.9137627
100.7258687	165.7887849	0.8745	107.3603993	154.6479344	157.9265479
109.5583282	151.712622	0.977833333	116.1408992	144.7718849	148.8963504
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8/11/2019	1940	0.298666667	91.3696304
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8/11/2019	1943	0.337	109.9216475
8/11/2019	1944	0.441166667	128.1521962
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8/11/2019	1946	0.162333333	115.4770247
8/11/2019	1947	0.159166667	112.1213308
8/11/2019	1948	0.218	116.7322683
8/11/2019	1949	0.3795	140.7139604
8/11/2019	1950	0.276	133.4182415
8/11/2019	1951	0.316833333	142.0946037
8/11/2019	1952	0.437166667	145.0313765
8/11/2019	1953	0.3565	154.3067293
8/11/2019	1954	0.3345	151.1813379
8/11/2019	1955	0.346	147.4466031
8/11/2019	1956	0.3635	152.161976
8/11/2019	1957	0.276	168.2292782
8/11/2019	1958	0.121525424	132.3561097
8/11/2019	1959	0.162	134.495988
8/11/2019	2000	0.164333333	110.2865513
8/11/2019	2001	0.2945	126.4671138
8/11/2019	2002	0.1945	102.2724179
8/11/2019	2003	0.311666667	123.915416
8/11/2019	2004	0.334	120.0951337
8/11/2019	2005	0.388	127.0772927
8/11/2019	2006	0.342666667	124.5000988
8/11/2019	2007	0.237833333	119.3801429
8/11/2019	2008	0.400333333	124.8681429
8/11/2019	2009	0.487666667	130.0452671
8/11/2019	2010	0.506333333	125.7833503
8/11/2019	2011	0.404833333	134.1557703
8/11/2019	2012	0.265166667	135.2445454
8/11/2019	2013	0.230833333	119.8848586
8/11/2019	2014	0.127666667	66.81812218
8/11/2019	2015	0.109	56.32430969
8/11/2019	2016	0.143166667	40.1970427
8/11/2019	2017	0.1775	70.44289534
8/11/2019	2018	0.263666667	119.4314278
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8/11/2019	2020	0.419	138.6689291
8/11/2019	2021	0.369166667	143.4009213
8/11/2019	2022	0.293666667	162.4316613
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123.8942852	139.6144969	0.688	128.4373053	137.9036286	138.5105576
125.0131449	139.1078221	0.3335	133.0954106	137.0757265	138.7225824
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128.8617942	137.7899686	0.584333333	145.4459075	139.3088326	138.6263351
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126.2460248	138.6147294	0.602166667	137.3373659	137.1140775	138.1079184
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108.8618923	152.6063203	0.407333333	116.6887733	144.307146	146.570646
123.550596	139.7816011	0.692666667	134.7347779	137.0014678	138.5919199
128.6066651	137.8573515	0.894666667	140.1248359	137.549864	137.5129581
126.4903149	138.525041	0.8105	139.7098927	137.4641857	138.2499504
134.5716459	137.0038288	0.651166667	147.8503386	140.5194024	137.9150422
130.8347824	137.362809	0.494666667	146.084906	139.6045536	137.792827
125.6099036	138.8606806	0.360833333	140.5786786	137.6519687	139.5466201
89.21091862	191.1331681	0.1725	102.9535579	161.6293595	165.7899708
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125.7178169	138.8176897	0.704833333	139.2194431	137.3723386	138.0068857
139.7235782	137.4668949	0.771666667	150.7949521	142.3758296	138.7183951
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8/11/2019	2035	0.780166667	131.7232043
8/11/2019	2036	0.607833333	128.9525896
8/11/2019	2037	0.493	135.2248259
8/11/2019	2038	0.399333333	143.0241403
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8/11/2019	2040	0.409833333	122.6791576
8/11/2019	2041	0.584666667	137.2123264
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137.6398501	0.899333333	143.2976329	138.4493218
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167.9341477	0.928833333	173.9565838	176.178005
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126.9489529	138.3637574	1.254666667	136.4473171	137.0437208	138.2873239
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139.4020462	137.4053442	1.078166667	149.1723785	141.3006992	138.6231249
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137.5036053	137.1308949	1.019833333	145.0419009	139.131424	137.8507769
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134.7268634	137.0015567	1.215666667	143.6682679	138.5829628	137.4178672
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144.5248737	138.9151035	0.784833333	152.6699975	143.7836319	139.8928006
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134.6540331	137.0024976	0.831833333	141.991279	138.0262681	137.3267544
133.8094314	137.0295823	1.134	144.8210055	139.0375352	137.6757555
141.4873069	137.8828765	1.173333333	149.0788338	141.2426546	138.8036757
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161.940522	153.6774925	0.785166667	172.2881483	172.1973407	158.1465974
169.9840449	167.2135209	1.121	174.6124025	177.8354133	175.8375759
169.2333439	165.7084357	1.220666667	172.3834378	172.4159285	170.5591292
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155.3517357	146.1215993	0.973166667	165.1494378	158.4330864	148.6964299
153.4547924	144.4273619	0.875333333	161.8667104	153.5770707	147.7696954
158.2651496	149.1259039	0.702166667	165.7143949	159.3534712	152.9494558
178.7530639	189.6647964	0.9895	178.9285251	190.2234036	190.4757645
168.3963632	164.094888	1.573	174.0966723	176.5275027	170.723357
181.0185796	190.3928008	1.377166667	182.8107402	184.902633	184.7696351
168.610035	164.5004825	1.814	174.9207961	178.6337641	171.5602277
173.3861462	174.7797592	1.647833333	177.0451345	184.4825926	179.3396468
165.6513565	159.2494756	1.590166667	171.6187105	170.6904066	162.9307595
175.8739808	181.1808094	1.243666667	179.2116126	191.1354203	187.9618898
172.4187516	172.4971983	1.438333333	179.7149206	192.7904053	177.6391356
169.3178669	165.8751222	1.709166667	173.2743815	174.5104191	170.5158017
171.5523768	170.5437848	1.549666667	175.3551034	179.7791885	174.7429201
172.359753	172.3615008	1.7205	176.0425848	181.6441893	176.7218172
167.6041264	162.6279551	1.136166667	170.623578	168.5404717	164.2316035
180.5054198	192.0605405	1.149	182.5756943	185.5942992	187.8243893
162.5723511	154.5530459	1.479666667	168.184587	163.6971013	158.504174
168.7640972	164.7955964	1.412333333	175.0394567	178.9442431	166.9643662
166.6832408	160.993738	1.537833333	171.1414314	169.6460776	165.9421061
182.1378871	186.9049562	0.993166667	186.222871	175.7338431	183.2621896
157.2934691	148.0676152	0.939	168.4014738	164.1045389	150.2569865
158.8395138	149.77897	1.007457627	163.4025814	155.7478087	155.0444401
183.0766688	184.1299995	1.437666667	184.889795	179.1302386	178.5219674
173.7246624	175.6047326	1.443666667	180.0827419	193.4680692	184.9900002
182.8805918	184.6986721	1.1195	188.7933068	169.7874272	179.5413864
172.8200993	173.4309031	1.038	178.4168239	188.6083611	182.4104337
172.2491796	172.1082459	0.912166667	176.6261062	183.2786948	177.095023
165.5350681	159.0584929	0.9135	172.8151198	173.4192045	164.8966316
161.19413	152.6796509	1.3185	169.7448575	166.7279028	158.2808012
161.8632133	153.5723224	1.345833333	170.8895738	169.1048353	157.5494471
171.6744524	170.813989	1.176833333	174.8361214	178.413335	177.5275053
179.3704195	191.6529396	1.045833333	181.2848599	189.5447244	188.4821868
190.1614861	166.917369	0.9975	191.7075566	163.8991706	170.677416
187.2804637	173.1952045	1.150166667	189.7118969	167.8391808	168.9741638
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209.5031743	142.1684992	0.871666667	209.1545264	142.4114068	141.1352036
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210.9922222	141.1988475	1.042166667	213.4141218	139.8494636	139.8196494
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227.8490705	137.1695506	0.805333333	233.1539482	138.3991392	138.0720501
227.8309651	137.1674003	0.979166667	232.1929493	138.0867264	137.7227915
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8/11/2019	2213	0.647288136	223.6873072
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8/11/2019	2217	0.637	194.9433711
8/11/2019	2218	0.624	193.5803028
8/11/2019	2219	0.549833333	206.3953744
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8/11/2019	2221	0.534166667	198.0423195
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8/11/2019	2223	0.375833333	200.7807023
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8/11/2019	2225	0.4425	189.4961064
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8/11/2019	2227	0.202	185.5712412
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8/11/2019	2230	0.1495	143.5025444
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8/11/2019	2233	0.156166667	198.2132477
8/11/2019	2234	0.161	227.2899677
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160.5396695	0.7945	198.4896541	153.0976384
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148.3509456	0.552333333	205.3612537	145.4614352
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177.3658213	0.240166667	181.2457181	189.6686567
146.1743185	0.217166667	205.5138032	145.3238783
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137.0260725	0.333666667	220.6152033	137.4021659
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167.2468091	0.559833333	189.9828699	167.2811458
187.9540066	0.616666667	186.228084	175.7209998
181.3338813	0.6355	177.3875115	185.4854778
158.9056091	0.729166667	167.9460737	163.2540598
159.831445	0.6975	170.4132664	168.09947
168.9877389	0.624666667	173.6296975	175.3718974
182.2662786	0.605333333	177.8621084	186.9049425
177.0136322	0.650666667	174.9591393	178.7338884
190.9258378	0.672666667	180.3031001	192.7303975
184.8723067	0.683833333	185.9638114	176.3763065
155.8932213	0.635666667	193.906931	159.9851342
143.962631	0.641833333	208.1150565	143.17216
146.8917453	0.665666667	204.9949114	145.7970683
144.1349005	0.716333333	204.9507203	145.8380631
145.6025733	0.8005	207.7942522	143.4181498
146.9939013	0.599833333	206.8121489	144.2047191
155.9711798	0.6015	200.8691464	150.1182055
172.0280422	0.509	195.0968349	158.0399884
157.9689787	0.493666667	168.0245439	163.3992418
173.2204337	0.551666667	188.4465195	170.5462204
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195.9141678	156.7698626	0.958333333	201.6104547	149.2655897	152.096419
188.560713	170.2949205	1.002166667	194.2954752	159.3371667	164.6299719
188.4750195	170.4833691	0.869	195.785678	156.9660679	160.7311663
192.0043145	163.3457836	0.850333333	198.9555037	152.4842692	157.3668402
197.1219625	154.9870305	0.751355932	204.2396852	146.512874	148.2383795
196.7819748	155.4777987	0.733	206.024858	144.8724048	149.8784834
195.8199241	156.9136486	0.623833333	205.0255122	145.7687452	151.0367496
194.0571194	159.7331729	0.526333333	199.2854807	152.0588267	151.4010951
191.8922932	163.5537232	0.508	200.0490174	151.1025504	153.7362468
195.8222369	156.9101117	0.466166667	203.3512149	147.3969845	149.0826849
188.4314279	170.5795379	0.4735	197.8388533	153.9799659	161.6507446
186.8377159	174.2417748	0.422333333	194.0613654	159.7260771	163.4069635
187.6081982	172.4351644	0.2585	194.3212904	159.2945602	174.6910506
195.9635308	156.6948244	0.202166667	201.8872318	148.9561042	149.2872814
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168.2549551	163.8288138	0.263	176.0994945	181.8014874	167.8558949
187.2358531	173.2996174	0.15	200.9912885	149.9753244	168.1750723
187.6642006	172.3065204	0.241166667	207.3577227	143.7614917	157.277871
217.1363651	138.300509	0.243833333	220.3044477	137.4613554	137.4681104
221.6348666	137.2366326	0.196833333	232.6776986	138.2392769	137.8434676
212.9806352	140.0707322	0.234666667	224.6389876	137.0027195	137.9704793
215.4758447	138.9148113	0.301833333	225.4589413	137.0043951	137.5868612
196.7229592	155.5638626	0.378833333	208.8524181	142.6268393	148.521907
199.1434454	152.241044	0.407333333	209.7741733	141.9838884	146.3284385
197.7060523	154.1637128	0.439166667	208.0928281	143.1890326	149.2509851
188.5199718	170.3844149	0.48	195.3762735	157.599824	164.0217261
184.3205408	180.6510661	0.604666667	192.6199694	162.2233595	169.3505951
181.0110966	190.4168024	0.649833333	188.9419831	169.4660738	180.8894706
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169.7684955	166.7756398	0.674666667	175.1595644	179.260394	168.4917372
172.2276547	172.0591067	0.636166667	175.7217889	180.765902	174.2961613
174.6000186	177.8036109	0.568833333	177.8137751	186.7588033	183.4334088
173.1230646	174.1481366	0.609833333	183.7902693	182.1074677	178.0007812
176.231474	182.1680217	0.644333333	183.6371822	182.5352241	187.0898703
181.3855964	189.2269179	0.651333333	187.9181481	171.7276278	180.5507897
189.3220377	168.6552569	0.614666667	200.4649468	150.5978746	158.7828718
201.7840102	149.0709673	0.67440678	212.6437396	140.2487325	144.1136227
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201.1573404	149.7826041	0.711333333	211.3652295	140.9728803	145.182112
199.6933075	151.5432033	0.772	210.9767723	141.2083518	145.4430695
197.7953232	154.0400559	0.628333333	209.8201568	141.9529259	146.7979005
194.7357268	158.6180581	0.580333333	205.4476344	145.3833855	152.5227072
185.2189008	178.2705987	0.475333333	187.9245804	171.7130592	170.0129221
171.6704822	170.8051755	0.442333333	182.1347858	186.9143457	169.7719354
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8/12/2019	0046	1.621	170.8809276
8/12/2019	0047	1.7675	175.182722
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8/12/2019	0050	1.386833333	170.3095463
8/12/2019	0051	1.685166667	178.5349684
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8/12/2019	0053	1.582333333	174.8764033
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8/12/2019	0106	1.4335	161.5990471
8/12/2019	0107	1.261833333	157.7492424
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171.5504179	170.5394622	2.356666667	178.5164867	188.9195852	177.3476874
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168.9456913	165.1463479	2.1855	174.1194879	176.5846552	168.8279809
160.8354572	152.2138913	1.858166667	167.2618832	162.011855	152.162787
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155.6043158	146.3623564	1.997666667	162.0835241	153.8731506	147.9039167
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165.3423303	158.7444003	2.113	172.2913829	172.2047439	162.0271525
171.8714978	171.2535871	2.125666667	172.1497786	171.8817598	173.1280846
157.681334	148.4831264	2.2125	162.1261464	153.9317493	149.4774765
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166.8371936	161.2617609	1.629166667	173.6843742	175.5058198	163.7002429
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178.315602	188.2938982	1.5205	182.8598024	184.7592998	189.6530099
173.5816526	175.2545193	1.46	178.2147974	187.9823542	180.8934634
175.9724045	181.450832	1.607	181.8014629	187.9322512	183.4537651
176.9817049	184.2987059	1.889	181.5322035	188.7673375	188.2509965
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139.9384599	1.692166667	215.8882732	138.7508392
139.1981867	1.580666667	218.1532328	137.9840288
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138.9109891	1.680666667	217.0564578	138.3272883
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141.0320224	1.749166667	212.8741319	140.1264312
138.6761719	1.582666667	216.5516877	138.5029225
145.9299113	1.6475	206.5594561	144.4153813
140.2427081	1.293166667	210.9569642	141.220554
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193.6791413	160.3709103	2.678666667	199.3253593	152.0079126	156.8673834
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193.4608901	160.7446707	2.956166667	199.3603467	151.9633321	154.9293232
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192.6087841	162.2434477	2.307166667	196.0089021	156.6260201	159.3696205
191.6223965	164.0594824	2.249333333	196.4379771	155.9831366	159.6777706
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193.2612508	161.090138	2.63	198.8875405	152.5728201	155.8158866
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196.19323	156.3481187	3.003166667	201.729325	149.132088	152.2060343
191.3420323	164.5920592	2.448666667	195.7104599	157.0815217	160.4323922
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187.8916814	171.7876216	2.843166667	191.9021344	163.5354092	166.8228575
185.2773715	178.1193464	2.828333333	191.3389884	164.597882	170.6015856
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193.5276646	160.6298855	3.565833333	196.6324346	155.6963831	155.8705505
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191.99017	163.3719758	3.6755	197.8116845	154.0174544	158.4982368
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141.7793621	1.027166667	216.4609525	138.5356818
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145.9737483	0.648833333	31.81412392	140.7097906
145.7973312	0.842666667	28.71111153	142.729192
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205.1946387	145.6131537	1.8165	210.3519376	141.6024503	143.2461164
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202.326882	148.47423	2.010833333	206.8508969	144.1727182	145.469708
201.0152385	149.9474196	1.534666667	206.0883048	144.8173536	146.9534641
192.5281881	162.3885229	1.511333333	201.1761235	149.7609146	158.3411272
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209.6410354	142.0741279	0.855666667	214.8053605	139.1976283	140.9934188
207.390763	143.735155	0.614576271	213.2781723	139.9179204	140.7447848
219.2681536	137.6884129	0.589333333	225.403296	137.0033939	137.2722806
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239.164225	141.2956231	0.417	241.8766432	143.1658661	148.5920945
231.2575124	137.8211306	0.267166667	237.2569155	140.1956921	138.4655014
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248.6244085	149.5319604	1.009833333	251.6823092	153.3278731	154.5010293
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257.6887263	162.7818703	1.188166667	259.8395183	166.9194056	166.3044548
253.4691612	155.845844	0.946833333	255.3449217	158.7486032	157.9234076
252.7503164	154.8048722	1.1625	256.3622152	160.441422	160.700036
252.104008	153.9012964	1.453666667	254.4137751	157.2731793	154.9795818
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236.0531499	139.5894173	0.9815	239.5159611	141.5175438	141.0521803
233.7619477	138.6177009	0.819	237.2160413	140.1740033	139.6294184
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247.9241054	148.7478667	0.876333333	249.3971142	150.4329945	152.2226881
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259.8878707	167.0175704	0.8755	262.8007899	173.3855547	169.8335818
262.8734881	173.5565134	1.011166667	265.3645881	179.8044824	176.4620171
266.0661002	181.7091309	1.114166667	268.3490942	188.3977662	187.8072339
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205.2988498	145.5180787	3.126666667	206.7993677	144.2152923	143.8149231
214.2042226	139.4684439	3.722333333	217.1689636	138.2896645	138.6341956
209.9292758	141.8798714	3.467666667	211.002587	141.1924779	141.2240588
207.6860581	143.5023181	3.141	210.4631514	141.5309121	142.268703
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214.8169307	139.1925764	3.734833333	216.7271298	138.4406086	138.7318524
208.9008064	142.5920232	3.09	211.6350917	140.8135646	141.5916798
205.6115253	145.2364376	3.012333333	208.8238835	142.6474261	143.3791484
208.0426111	143.2272442	3.398333333	210.8652268	141.2773141	141.7293134
213.2492096	139.9326149	3.1365	215.8747043	138.7561133	139.1414233
201.3071928	149.610187	3.318	204.2352146	146.5172081	147.0862703
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207.6818448	143.5056082	2.647166667	209.7366886	142.009206	142.5174073
207.5281021	143.6262962	3.198166667	211.3021581	141.0106184	142.1038046
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188.7069172	169.9752392	3.899	195.1940339	157.8861784	165.1194738
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198.0891058	153.6371369	3.589833333	202.2436374	148.5645591	151.5638786
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194.1960777	159.5017321	3.887833333	200.222778	150.8903366	155.9879205
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181.9386379	1.551666667	175.9195415	181.3056373
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165.9541595	1.400166667	189.2341901	168.8413232
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177.1409565	2.064333333	186.3898655	175.3240693
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180.7466933	1.9285	184.7869336	179.4018376
193.0892899	1.891166667	180.1427903	193.2662081
182.9395411	2.058333333	184.2839497	180.7503195
179.0942699	1.392833333	178.4304023	188.6506692
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165.5852537	1.835833333	173.0625831	174.0040914
187.7584792	2.186666667	180.3163742	192.6862316

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202.8945088	147.8695076	2.710666667	206.2620114	144.6677534	145.7487811
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187.5526431	172.5631337	3.437333333	192.8893838	161.7428664	166.4277585
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172.3838993	172.4169899	3.4245	177.8420979	186.8443954	179.5784454
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168.9198115	165.0961681	2.585	175.2890951	179.6034892	171.6225083
170.6006668	168.4922067	2.239833333	176.6082579	183.2279814	174.1770495
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178.8275263	189.90124	1.999	186.2632647	175.6344119	184.5569888
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172.3276899	172.2879215	2.051833333	179.4466721	191.9029534	182.1669341
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169.5632537	166.3630072	2.114666667	174.9237783	178.6415445	171.9742898
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161.1844154	152.6669193	1.961	168.9069208	165.0711977	157.8503248
169.2307208	165.7032739	2.257333333	177.1247599	184.7142729	171.8713546
165.3726281	158.7935734	2.704333333	173.1799628	174.2840429	165.4219565
169.8539473	166.9486748	2.3165	177.4770102	185.7505324	174.8045904
169.5600205	166.3565403	2.481666667	174.7045937	178.0727831	173.8260353
165.1234108	158.3913116	2.275833333	170.2793949	167.821131	164.1895725
163.9554054	156.5720047	2.084833333	169.2850843	165.8103895	159.6032001
170.732163	168.7699618	2.053833333	175.4357732	179.9947056	175.873407
178.6256932	189.2624526	1.9725	184.6586154	179.7426241	187.0409947
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155.3575685	146.1271182	2.2445	160.4407085	151.7114086	149.0979236
163.1809595	155.4238779	2.3755	169.9185224	167.0799208	159.2148456
168.224728	163.7721797	2.802333333	174.7239412	178.1227374	168.804513
176.9483066	184.2021201	2.889666667	182.6258056	185.4461417	186.762801
171.4434118	170.3039731	2.660166667	175.2367296	179.4645174	177.5668575
176.7949668	183.7607662	2.592666667	182.8901851	184.670717	183.4283966
169.3447455	165.928275	2.3385	174.4529201	177.427358	170.5022055
167.0198468	161.5824254	2.9635	172.8941658	173.6052524	165.3001522
163.7467884	156.2582486	2.703333333	168.7667848	164.8007647	159.4279873
170.1658347	167.5864599	2.178166667	175.5760807	180.3716371	173.5626024
163.6553833	156.1218241	2.528666667	170.7069838	168.7166369	161.4562418
163.0260507	155.1996329	2.273666667	170.2909242	167.8450298	161.3800103
165.9243582	159.7022301	1.955166667	171.5463333	170.5304504	164.2646365
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148.5294179	140.9102695	3.365166667	154.7824653	145.592213	142.2307611
141.7418694	137.953934	2.0565	143.3935799	138.4833372	138.482161
136.7870501	137.0666645	1.998666667	141.1700816	137.7982345	137.2665434
139.2461279	137.3770738	2.3245	143.7658711	138.6191642	137.7669854
139.8907417	137.500628	2.307333333	145.3870437	139.2825249	137.9284343
134.5959156	137.0034072	1.7895	138.7799223	137.2986753	137.0771837
138.2600866	137.22207	2.637666667	143.3580222	138.4706839	137.557797
132.828058	137.0984922	2.486333333	137.1970685	137.1007856	137.1234402
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138.1128145	1.0515	128.2644104	137.9521475
137.1114981	1.064833333	130.8569147	137.3589552
138.1041419	1.162166667	127.3269787	138.237756
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139.0706266	137.3464832	1.514	140.3730767	137.6046242	137.5610699
139.248474	137.3774916	2.028	143.874437	138.6599267	137.6912042
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129.2935859	137.6822921	1.7195	133.4559213	137.049764	137.9551075
130.5379343	137.416501	1.927166667	134.7736323	137.0010692	137.1786912
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134.9222923	137.000126	2.045666667	139.7069157	137.4635974	137.1270413
130.314888	137.4593004	1.529666667	130.9888401	137.3364132	137.4035432
138.5351094	137.2611803	1.212666667	139.4393417	137.4122589	137.3399699
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127.6341633	138.1399611	1.347833333	129.2765835	137.686381	137.972826
130.7760184	137.3731418	1.523833333	134.4803822	137.0056341	137.2123073
128.6363693	137.8493622	1.566333333	128.0073329	138.0266782	138.0544846
131.524123	137.2524879	1.789	134.4995169	137.0052268	137.2209093
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123.704949	139.7058822	1.696833333	123.9596067	139.58335	139.1413071
122.8607659	140.1334587	1.6095	123.6709636	139.7224599	140.1569978
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137.0826032	0.3075	45.14798892	137.000457
148.3306237	0.7165	19.0082218	152.4158001
181.4989901	1.813333333	1.472590026	188.9537935
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125.7757059	138.7948415	1.994833333	128.7960413	137.8070671	138.5469602
131.5141669	137.2539386	1.787666667	135.3896907	137.0031688	137.2427023
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133.8577072	137.0272315	2.309666667	136.6370165	137.055937	137.0237622
137.9564153	137.1825821	1.944833333	139.0913035	137.3500196	137.244567
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137.2191081	137.1028191	1.546166667	140.9625967	137.7452125	137.2640406
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163.2490905	155.5230696	1.7755	166.9071017	161.384147	157.8669186
153.2905676	144.289938	1.658474576	161.2201508	152.7137845	146.718482
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121.5012856	140.8921226	1.362166667	126.7538619	138.4312327	142.0004863
124.6460299	139.2678123	1.711333333	128.350486	137.9278311	139.3450988
123.7979411	139.660793	1.724166667	125.7158742	138.8184591	138.9690359
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130.6593734	137.394085	2.087666667	136.7981878	137.0674984	137.3463244
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145.8612974	139.4989535	1.506666667	148.1867261	140.7102797	139.9544142
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144.6827241	138.9798757	0.823333333	148.1378524	140.6822138	138.8717533
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324.7446275	193.747258	7.913166667	326.5148933	193.747258	193.747258
318.3220332	193.747258	8.063833333	319.2593567	193.747258	193.747258
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351.2052795	193.747258	5.8865	349.5349839	193.747258	193.747258
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345.2630852	193.747258	4.348666667	345.1941282	193.747258	193.747258
354.8882999	193.747258	4.253	354.4694607	193.747258	193.747258
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32.68926413	140.2243696	4.340333333	33.56552302	139.7742306	140.2161019
29.46514102	142.1947015	6.621166667	27.49575875	143.6518433	142.3835521
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3.795523479	182.0928452	4.3525	5.128509417	178.5052961	182.596714
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21.41595302	149.4859379	5.655166667	21.40967817	149.4930861	149.9331031
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24.89625587	145.8887393	5.573166667	24.64881128	146.1210819	146.7511116
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32.933332	140.0954055	4.800666667	32.95988905	140.0815405	140.310228
38.37829554	137.9200433	3.931166667	39.40109346	137.6567241	137.8586256
39.65364868	137.5986026	3.907833333	41.67167256	137.2314773	137.5227145
41.35636629	137.2774899	4.198166667	41.37413337	137.2747858	137.4163677
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23.61580789	147.128874	3.386666667	24.76311991	146.0133194	148.0472353
7.803990727	171.9869583	3.7905	7.502024288	172.6800395	173.8860685
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27.37314442	143.7491918	3.745666667	27.00230709	144.0484402	143.7365575
19.09139957	152.3081575	2.835666667	20.50543519	150.5493504	152.6378583
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8/12/2019	2356	1.6265	346.2602477
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8/13/2019	0032	0.7525	29.55757102

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183.3389708	2.032	0.772399285	191.1873293
152.812126	2.067833333	14.18579554	159.5188023
149.944922	1.6945	22.514785	148.2718881
153.0561862	1.296166667	18.31850313	153.3267807
152.9802931	1.186166667	16.28942163	156.2041282
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354.1259901	193.747258	1.5265	355.4475157	193.747258	193.747258
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119.7219281	142.0191946	1.439333333	124.8963257	139.1580729	139.8819655
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129.9003855	137.5444472	1.939	136.3166799	137.0361827	137.2099118
136.6121047	137.0542469	2.264333333	141.2453079	137.8179148	137.2596509
108.0158561	153.7370225	1.417833333	116.0797186	144.8247907	149.7879621
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57.8454627	140.5166751	1.548166667	55.52771107	139.3456535	140.0962782
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8/13/2019	0041	1.118333333	13.31128406
8/13/2019	0042	1.060517241	359.9929627
8/13/2019	0043	0.9155	0.472561863
8/13/2019	0044	0.986166667	19.88103451
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8/13/2019	0046	1.3375	22.49055248
8/13/2019	0047	1.333666667	357.7002098
8/13/2019	0048	1.233166667	23.27522031
8/13/2019	0049	0.8195	36.41441665
8/13/2019	0050	0.820166667	35.83348297
8/13/2019	0051	1.3765	41.46249656
8/13/2019	0052	1.1365	46.04617648
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8/13/2019	0054	0.918833333	62.44611459
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8/13/2019	0056	0.893833333	49.9641142
8/13/2019	0057	0.782166667	8.719462898
8/13/2019	0058	0.933166667	346.0882162
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8/13/2019	0102	0.632833333	47.70671798
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8/13/2019	0106	1.336333333	105.8778672
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56.45068536	139.7822342	1.683833333	57.3262513	140.2326619	141.5491445
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346.0206204	193.747258	1.798	344.8670704	193.747258	193.747258
1.109405163	190.1022172	1.645833333	2.078562978	187.0848224	191.1703889
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104.149766	159.5786873	1.7325	102.9285743	161.6735058	158.0593954
102.0979485	163.1728588	2.449833333	101.1880279	164.887762	161.3068759
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8/13/2019	0132	1.418833333	163.2262549
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292.0993247	148.7221587	5.001666667	295.5890755	145.2564787	147.3883757
256.6930627	161.010776	4.259166667	262.9465894	173.7290429	165.0496575
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127.4178648	138.2083934	2.621166667	126.1909708	138.635306	139.8209534
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229.7959328	137.4813502	2.298166667	232.7940735	138.2774244	139.8052223
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253.7076701	156.1997857	1.065833333	257.9219939	163.2096216	153.0169587
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173.7699081	175.7160539	2.139322034	177.3450922	185.3602725	183.0158135
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198.9056714	152.5491659	3.955166667	201.6663511	149.2027034	146.9376926
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243.9986254	144.8928364	1.753666667	245.8494802	146.5995339	146.6283804
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274.094662	181.2666916	1.392166667	273.2589593	183.6063665	178.1219483
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8/13/2019	0540	0.677166667	215.8392022
8/13/2019	0541	0.580666667	213.9250714
8/13/2019	0542	0.539	202.5182436
8/13/2019	0543	0.516833333	206.8841804
8/13/2019	0544	0.552833333	216.2653265
8/13/2019	0545	0.474333333	227.7863905
8/13/2019	0546	0.466101695	241.8824521
8/13/2019	0547	0.4005	276.7141957
8/13/2019	0548	0.442	300.4911949
8/13/2019	0549	0.636166667	294.0913811
8/13/2019	0550	0.638	281.1006718
8/13/2019	0551	0.545	278.7327682
8/13/2019	0552	0.569166667	291.9767773
8/13/2019	0553	0.757	285.5055943
8/13/2019	0554	0.918833333	294.5419113
8/13/2019	0555	0.639166667	294.5607261
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8/13/2019	0557	0.647	270.0249484
8/13/2019	0558	1.030166667	283.7998188
8/13/2019	0559	1.140333333	277.5930281
8/13/2019	0600	0.723666667	277.7367749
8/13/2019	0601	0.71	273.5951353
8/13/2019	0602	0.650833333	259.0521607
8/13/2019	0603	0.6305	253.3973206
8/13/2019	0604	0.6155	250.0829592
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8/13/2019	0608	0.8255	281.6387352
8/13/2019	0609	0.9965	293.6029078
8/13/2019	0610	0.9755	296.6752784
8/13/2019	0611	1.302666667	298.3308788
8/13/2019	0612	1.072	299.9347917
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151.2650633	0.594666667	252.4404662	154.3679123
158.7987629	0.926833333	255.0417178	158.2605447
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164.0286729	0.7785	279.2015091	168.9107496
147.1418503	0.934915254	286.7337708	155.5480763
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141.8761942	1.101666667	295.171746	145.6341207
138.9097262	1.035166667	300.7819453	141.3291957
141.3460513	0.853833333	297.6135395	143.5590752
146.6808001	0.937333333	290.4091816	150.664882
149.1842568	0.902166667	287.841437	153.9764037
160.2946123	0.971166667	282.8849877	161.7506553
178.0719135	0.753833333	275.6226759	177.2350689
184.5315946	0.816333333	267.3615559	185.4088349
180.0415406	0.853333333	264.5444697	177.6612012
174.659491	0.869833333	264.044294	176.3965419
190.8833251	0.725666667	268.8793606	190.0663697
187.3879214	0.908666667	270.5363104	191.9588851
161.9410916	1.063833333	258.6939487	164.6609445
153.1884895	0.773833333	253.1844515	155.4289534
154.5260946	0.988666667	254.7073218	157.7308507
147.22892	0.61	246.7378987	147.4882117
152.3037817	0.821	251.365707	152.9055869
141.688949	0.891	242.8196486	143.903859

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284.610442	158.8210832	0.831	282.1416596	163.0924067	155.2924159
276.1395076	175.9396792	0.796	280.8294599	165.5850312	168.9172387
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287.4301449	154.5495304	0.849833333	288.8869573	152.5735812	151.8715837
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288.23898	153.4339486	1.156166667	288.9174632	152.5337939	151.5644145
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271.8492023	187.785394	0.897666667	273.8366878	181.9784174	183.3339798
260.2828678	167.8283285	0.851166667	263.1305365	174.1659619	168.1815856
254.601514	157.5651013	0.833333333	254.4507822	157.3305036	157.0513224
250.9433725	152.3530994	0.8215	250.9754735	152.3946625	152.5951844
253.9132061	156.5082687	1.299833333	256.5634919	160.7866786	158.5885637
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259.9339931	167.1114265	1.339	262.9684484	173.7807547	171.0029314
277.8605831	171.8582147	1.16	278.5372844	170.3463632	168.7860001
284.0468609	159.7503228	1.231833333	281.5624235	164.1727861	156.6532589
291.3640875	149.5450968	1.4095	292.6809238	148.0947668	147.8743556
292.5774097	148.2049275	1.664833333	290.2291493	150.882593	147.1483177
294.7080993	146.0650967	1.5775	298.5639651	142.8368549	144.1030666
301.0685837	141.1520417	1.542666667	303.3442507	139.8845402	140.318876
297.7237757	143.4729069	1.336666667	301.9698851	140.6207458	142.2496948
291.8623755	148.9837034	1.3405	296.1187357	144.7910272	147.7801032
288.259922	153.4056832	1.324833333	291.6428731	149.2290937	151.4488593
282.0171855	163.3219657	1.451666667	284.8706571	158.4008281	160.9420153
271.8002626	187.9359483	1.010833333	274.6279269	179.8244522	180.7668457
266.0976325	181.7963337	1.171694915	270.1520621	193.2350964	186.2429649
264.1095119	176.5596574	1.218166667	267.9237311	187.0917887	180.338547
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265.3134079	179.6681368	1.0025	269.5034014	192.0895996	188.1768578
268.1565653	187.8031175	1.274166667	269.8180529	193.1349184	190.0712106
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260.5179213	168.3183481	1.309666667	265.7458695	180.8313395	172.5059299
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249.2159818	150.218353	1.332166667	249.7305336	150.8336539	151.085513
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239.9995348	141.8325282	1.508166667	241.7501594	143.070397	143.0099883
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228.4236238	137.2449424	1.630833333	230.1013224	137.5448132	137.64398
226.0934805	137.0249536	1.3815	226.1359084	137.0269279	137.1181986
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232.1122771	138.0623302	2.114666667	232.7256058	138.2549092	139.0722758
232.3941351	138.1487983	1.532666667	233.8820098	138.6627895	138.5308346
227.8127982	137.1652566	2.035833333	229.8389453	137.4900487	137.6031298
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242.8570164	143.9340643	1.523833333	245.2733267	146.0475984	144.9258986
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236.0590371	139.5922199	2.105666667	236.5585918	139.8358265	140.2273978
226.2325166	137.031704	2.224666667	229.4767613	137.419256	137.3168508
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137.2370218	1.861166667	228.8713862	137.3133323
137.2272863	1.733	225.5776079	137.0069619
140.5165456	1.6435	239.2157293	141.3277424
138.4865566	1.535666667	233.5434821	138.5372922
137.7876535	1.500833333	229.0763885	137.3474668
140.1871336	1.668833333	237.3766064	140.2596522
140.6773843	1.566666667	241.3039673	142.740174
155.7481211	1.376666667	253.0543393	155.2404503
149.6357371	1.291333333	246.6276009	147.3753669
149.9719878	1.397166667	249.2667375	150.2782851
140.2489251	1.542666667	239.538578	141.5320199
142.2841402	1.2705	242.6023639	143.7296837
175.4608481	1.171833333	260.4588069	168.1945758
151.4591819	1.368	249.5509258	150.6169264
150.5257985	1.362833333	250.5097373	151.7985176
151.6831471	1.414166667	249.5556172	150.6225607
169.2401807	1.128333333	260.9146539	169.1584313
182.5760319	0.912166667	265.3429614	179.7468254
166.9403666	1.010166667	263.3405016	174.6695802
168.3534201	0.994666667	262.7850473	173.348615
154.3399781	1.374666667	255.674792	159.2880993
175.617834	1.397166667	264.3507805	177.1677233
190.3823508	1.165	267.5755508	186.043769
165.2279391	1.1545	260.1607227	167.5759268
171.0844888	1.1025	260.0750307	167.3997585
153.7524373	1.388	251.2286104	152.7248918
159.1064559	1.567333333	256.720256	161.0579917
181.8920325	1.287166667	272.3101089	186.3858765
165.9173715	1.071355932	257.2311062	161.9569622
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229.369613	137.3993787	2.578166667	233.8677262	138.6573919	138.0819712
235.9711152	139.5505298	2.733166667	238.6386279	140.9751828	141.0573292
230.1793551	137.5616655	2.729	234.3163271	138.831236	138.5504667
237.1480696	140.1381087	2.377166667	240.8164365	142.3909432	141.2289986
230.8350748	137.7135408	2.928	233.7044292	138.5963261	138.3473502
236.1062495	139.6147527	2.4075	241.253312	142.7033273	141.5540643
239.3367157	141.4036997	2.503333333	243.8554978	144.7687756	143.985203
235.1335359	139.1710168	2.053833333	240.2284948	141.9856882	140.9800361
241.0817836	142.5795255	1.578833333	246.0477377	146.7938638	145.9749545
243.5751736	144.5290186	1.992333333	249.8408731	150.9678434	147.4341753
243.9045456	144.8111638	1.671333333	249.9665873	151.1217056	148.4992278
238.6268195	140.9681365	1.668833333	244.7819522	145.5917441	142.6027383
229.0595187	137.3445908	2.300166667	233.3794159	138.4782902	138.2920802
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239.1429014	141.2823629	2.290666667	240.3997323	142.1019363	143.1671416
248.1723718	149.0223493	1.898666667	251.5063947	153.0923726	151.953652
245.6683242	146.423947	2.101833333	248.8922524	149.839978	150.1348265
244.0269815	144.9175476	1.961	247.7057826	148.509624	148.7316801
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225.5530752	137.0063831	2.523333333	228.1291986	137.2045746	137.190328
222.7355655	137.107065	2.262666667	224.593071	137.0034553	137.0861922
232.8883203	138.308752	2.161166667	237.5351086	140.3453851	140.1246063
230.31811	137.5922725	2.009152542	237.6338963	140.3994156	138.7538842
226.9860089	137.0823427	1.916166667	231.6893997	137.9390591	137.5391305
232.5871784	138.2100132	2.3635	237.8181513	140.5014192	139.7895546
237.1660388	140.1475769	2.004833333	242.5691469	143.7032761	141.8171028
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245.9738288	146.7211535	1.8295	250.824594	152.199922	149.7928371
232.3904924	138.1476588	2.154666667	238.5962873	140.9499482	140.219638
240.0606963	141.8731873	1.495333333	248.195247	149.047832	144.2337108
256.6687462	160.9686093	1.438333333	256.9810846	161.514131	166.5345411
244.6963419	145.5137064	1.638166667	252.311309	154.187828	150.4444107
247.2338232	148.0045251	1.666666667	253.7897678	156.3226165	151.6628644
246.879872	147.6345242	1.684333333	251.6529596	153.2884314	150.8071658
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268.3186025	188.3031963	1.058	271.9694259	187.4171491	184.5108007
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262.1414742	171.8628885	1.188166667	266.6377529	183.311812	174.2191839
252.9213406	155.0490626	1.484666667	261.4512923	170.3212732	159.7496033
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255.8111664	159.5137577	1.379333333	258.6483406	164.5736489	164.2228181
258.1368002	163.6079169	1.293666667	263.6660705	175.4609469	169.3882778
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241.8197995	143.1228588	1.785	246.4392484	147.1843233	145.6660825
237.7721116	140.4757816	1.710333333	246.6612861	147.4097537	142.8231386
272.4674549	185.9156114	1.262666667	274.8036422	179.3576242	181.7098187
277.2767015	173.2040011	1.442666667	278.2077866	171.0761926	172.2804997
264.3707091	177.2182771	1.487666667	265.7483232	180.8380116	184.8220196
255.9990686	159.8272143	1.389666667	259.7730434	166.7848305	164.7892586
276.1407015	175.9367253	1.497333333	278.1978678	171.0983474	174.713693
272.4767648	185.8879049	1.326440678	276.1829746	175.8322464	183.7175731
270.002203	193.7398089	1.584666667	271.2892203	189.5309337	187.4474286
270.3906255	192.439744	1.251833333	270.795505	191.1123253	186.7462926
277.0820953	173.6612682	1.479	278.2446138	170.9940299	168.6735786
283.4748654	160.7206156	1.528	281.3640858	164.5498985	159.6332901
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255.1597055	158.4495816	1.524333333	261.1447039	169.6531547	166.5335701
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270.5974822	191.7580613	1.563	270.2574751	192.8824357	187.4581048
258.998656	165.2492443	1.605166667	265.1946253	179.353042	173.1321892
269.4903674	192.0466674	1.457166667	271.828737	187.8483059	185.3998886
270.3529891	192.564564	1.579833333	272.675231	185.3003824	184.8562119
266.7399988	183.6033878	1.718	271.1591335	189.9436958	186.965138
277.3633138	173.0019019	1.746833333	278.6779913	170.0383036	168.3606292
283.4673389	160.7335685	1.675666667	280.9832594	165.2844397	160.79297
279.6152688	168.0399867	1.6755	280.8977072	165.4513642	163.8795782
282.6114629	162.2386357	1.246333333	281.2934682	164.6850638	159.9258851
278.5430401	170.3337196	1.668666667	280.9147161	165.4181213	171.0293977
286.7742176	155.4890964	1.993666667	288.7731327	152.7226027	154.0579998
304.5502555	139.3105529	1.927666667	302.7662908	140.1833687	140.0277576
303.4005161	139.8562762	1.443	302.1367597	140.5266244	140.0196292
297.5966535	143.5723306	2.251666667	295.7654637	145.0997638	143.8462983
300.9107957	141.2490686	2.281333333	301.6661427	140.7954567	141.2374205
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310.0078838	137.5216635	2.1105	310.840675	137.3617809	137.5186329
315.2675958	193.747258	2.61	314.9381983	137.0000797	151.2102658
303.3716711	139.8707477	2.663333333	302.0750618	140.56127	140.386941
309.6676101	137.595469	2.377333333	310.6458041	137.3965587	137.8568563
309.6442717	137.6007119	1.879666667	309.9365125	137.5367354	137.5855511
303.4495013	139.8317884	1.338	303.7878425	139.6656703	140.120061
307.0073689	138.343878	1.548305085	305.8268569	138.7747768	138.4913465
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305.1775541	139.0381403	2.259666667	304.3113724	139.4189708	139.1060882
311.6532313	137.2340532	1.962	310.9555583	137.3420306	137.2244552
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306.7171963	138.4441007	2.7725	305.7738666	138.7955651	138.5265361
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321.9359965	193.747258	3.772166667	322.2976659	193.747258	193.747258
315.1191535	193.747258	2.964666667	316.8192615	193.747258	179.5616309
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318.679121	193.747258	3.091333333	320.649516	193.747258	193.747258
310.1413782	137.4940542	3.496	310.8503704	137.3600926	137.399783
318.4960334	193.747258	3.049833333	316.1490055	193.747258	193.747258
302.6853363	140.2264677	2.377833333	307.0703642	138.3226078	139.1182236
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292.6911889	148.0838777	3.443166667	295.7873698	145.0804205	146.9845892
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290.2747294	150.8272733	3.249	292.847392	147.9189641	149.08517
287.8555292	153.9569821	3.618	290.2288197	150.8829936	151.4588679
283.2354385	161.1350565	3.421333333	286.986983	155.1808466	158.1686174
284.9313463	158.3036018	2.854166667	289.6805429	151.5591726	155.4133149
289.0206814	152.3996456	2.823833333	292.2265206	148.5831851	150.0270481
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283.5376504	160.6127526	2.882166667	287.1095544	155.0047911	156.2514993
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299.9259522	141.8820878	2.8885	304.0174682	139.5559233	140.8408832
306.5809837	138.4924229	3.120166667	309.6255237	137.6049404	138.0041851
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319.9014747	193.747258	2.934333333	318.548475	193.747258	193.747258
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326.0625051	193.747258	3.046166667	327.338289	193.747258	193.747258
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341.480584	193.747258	2.649	340.1826717	193.747258	193.747258
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322.7941331	193.747258	2.415166667	322.3697266	193.747258	193.747258
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8/13/2019	1911	0.836	308.7703471
8/13/2019	1912	0.690666667	318.8152222
8/13/2019	1913	0.894333333	313.6780545
8/13/2019	1914	0.7015	309.2857026

193.747258	1.959	316.4494355	193.747258
193.747258	2.126333333	319.170184	193.747258
137.1626542	2.756166667	310.249868	137.4721741
193.747258	2.419833333	315.8770603	193.747258
137.5656691	1.957333333	308.7526722	137.8184466
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137.3615118	2.005166667	309.3153987	137.6770645
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193.747258	1.905166667	333.6016454	193.747258
193.747258	2.0975	332.9668767	193.747258
193.747258	1.907833333	332.7813306	193.747258
193.747258	1.1785	328.8928457	193.747258
193.747258	1.514666667	331.5384075	193.747258
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193.747258	2.141	320.0380306	193.747258
193.747258	1.886166667	323.9423708	193.747258
193.747258	2.055	327.4410797	193.747258
193.747258	1.597333333	340.5898761	193.747258
193.747258	1.339830508	327.6678543	193.747258
193.747258	1.949666667	324.7412198	193.747258
193.747258	1.8105	329.7386116	193.747258
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193.747258	1.616166667	326.8235563	193.747258
193.747258	1.410333333	330.7733294	193.747258
193.747258	1.212	331.1261767	193.747258
193.747258	1.260833333	324.6751351	193.747258
193.747258	1.164333333	327.7590878	193.747258
193.747258	1.395	324.2595012	193.747258
193.747258	1.760666667	332.984628	193.747258
193.747258	1.452833333	324.0903245	193.747258
193.747258	1.4215	314.9461083	137.0000606
193.747258	1.2175	320.156798	193.747258
193.747258	1.374833333	318.2698686	193.747258
193.747258	1.349	314.0437757	137.0190816
193.747258	1.1105	323.4414114	193.747258
193.747258	0.832666667	320.5352148	193.747258
137.0124058	1.110333333	312.310296	137.1510961
193.747258	1.102666667	318.9418404	193.747258
193.747258	0.954166667	322.0655637	193.747258
193.747258	0.7965	325.0775048	193.747258
137.0007032	0.8075	313.8711183	137.0265958
193.747258	0.965	322.9131626	193.747258
193.747258	1.219833333	317.6899842	193.747258
193.747258	1.1815	314.9821256	137.0000067
193.747258	1.3365	312.5005322	137.1304623
137.8137992	1.000833333	309.2182603	137.700501
193.747258	0.953333333	316.6748278	193.747258
137.0364728	1.1985	313.5966535	137.041104
137.6841864	0.839666667	310.0166798	137.519821

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321.6297795	193.747258	3.061	321.5903267	193.747258	193.747258
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331.4621119	193.747258	2.392666667	331.0326439	193.747258	193.747258
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335.36299	193.747258	2.319	334.1082828	193.747258	193.747258
320.3940927	193.747258	3.020666667	320.4887789	193.747258	193.747258
325.2041548	193.747258	2.615666667	324.2858649	193.747258	193.747258
329.3021788	193.747258	3.015666667	327.8371344	193.747258	193.747258
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328.6368523	193.747258	1.825166667	331.2467506	193.747258	193.747258
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332.522105	193.747258	2.365166667	332.5554857	193.747258	193.747258
334.7785369	193.747258	2.227166667	335.0582694	193.747258	193.747258
329.9940946	193.747258	2.165666667	330.2911856	193.747258	193.747258
331.4278662	193.747258	1.962333333	332.2412368	193.747258	193.747258
332.7669804	193.747258	1.763333333	335.350852	193.747258	193.747258
328.5929139	193.747258	1.808833333	329.1553599	193.747258	193.747258
332.4956695	193.747258	1.674237288	333.2671425	193.747258	193.747258
326.5580872	193.747258	2.089833333	326.7466419	193.747258	193.747258
334.9866844	193.747258	2.2455	333.4095136	193.747258	193.747258
327.0139615	193.747258	2.117833333	327.76725	193.747258	193.747258
318.5001331	193.747258	2.034666667	319.7819142	193.747258	179.5604587
320.4275845	193.747258	1.691166667	324.3848903	193.747258	193.747258
319.9154393	193.747258	1.985	323.5082159	193.747258	193.747258
314.565767	137.0039346	1.881666667	315.2061497	193.747258	165.3793831
327.68193	193.747258	1.626	329.851148	193.747258	193.747258
322.2530046	193.747258	1.2435	327.4671173	193.747258	193.747258
315.4961901	193.747258	1.523	317.91895	193.747258	165.4145045
321.4857146	193.747258	1.623666667	324.7754232	193.747258	193.747258
321.4070127	193.747258	1.443666667	325.4354534	193.747258	193.747258
324.8815938	193.747258	1.229166667	328.1334065	193.747258	193.747258
313.3778752	137.0549236	1.218333333	321.6468437	193.747258	151.2073701
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317.4501751	193.747258	1.766333333	319.8912828	193.747258	193.747258
315.7662246	193.747258	1.764833333	318.422	193.747258	179.5604452
313.4481704	137.0502651	1.923166667	315.2701653	193.747258	165.4188108
309.3827964	137.6610408	1.493333333	314.4556181	137.006184	137.5453812
316.9285762	193.747258	1.394666667	322.1313183	193.747258	193.747258
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8/13/2019	1915	0.682166667	311.5217323
8/13/2019	1916	0.800847458	300.4360476
8/13/2019	1917	0.691166667	305.6949116
8/13/2019	1918	0.74	302.0871285
8/13/2019	1919	0.583	314.2582445
8/13/2019	1920	0.7775	315.1899144
8/13/2019	1921	0.709166667	315.0432685
8/13/2019	1922	0.5155	321.8542453
8/13/2019	1923	0.621	316.1399709
8/13/2019	1924	0.544333333	321.8419715
8/13/2019	1925	0.424666667	327.3951442
8/13/2019	1926	0.612833333	320.6011174
8/13/2019	1927	0.578	316.4877002
8/13/2019	1928	0.482833333	303.5846704
8/13/2019	1929	0.414166667	302.8890277
8/13/2019	1930	0.457333333	306.5913027
8/13/2019	1931	0.2645	311.4227417
8/13/2019	1932	0.264333333	300.713555
8/13/2019	1933	0.223166667	285.4609939
8/13/2019	1934	0.379	290.199756
8/13/2019	1935	0.459833333	290.8281029
8/13/2019	1936	0.485	289.3983325
8/13/2019	1937	0.476666667	288.0719921
8/13/2019	1938	0.461166667	289.2192888
8/13/2019	1939	0.4765	288.5964529
8/13/2019	1940	0.354666667	294.6125329
8/13/2019	1941	0.298166667	290.9208058
8/13/2019	1942	0.349666667	289.2614987
8/13/2019	1943	0.358166667	289.1829274
8/13/2019	1944	0.317333333	281.035914
8/13/2019	1945	0.3135	267.3945742
8/13/2019	1946	0.312	261.798488
8/13/2019	1947	0.311166667	274.5691667
8/13/2019	1948	0.253	281.1977209
8/13/2019	1949	0.372333333	279.8980827
8/13/2019	1950	0.390169492	271.2768501
8/13/2019	1951	0.352333333	280.2710962
8/13/2019	1952	0.404833333	281.8846211
8/13/2019	1953	0.438166667	285.2578055
8/13/2019	1954	0.447166667	292.9865528
8/13/2019	1955	0.56	295.7362564
8/13/2019	1956	0.447666667	298.2328228
8/13/2019	1957	0.490166667	302.3709497
8/13/2019	1958	0.477	309.716623
8/13/2019	1959	0.494333333	306.3937924
8/13/2019	2000	0.51	310.7667199
8/13/2019	2001	0.507833333	305.5930597
8/13/2019	2002	0.512833333	295.5152727
8/13/2019	2003	0.439333333	297.6545343
8/13/2019	2004	0.442166667	293.1686838
8/13/2019	2005	0.415	294.5758437

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139.7647913	0.5425	308.6260451	137.8521347
140.1186092	0.458833333	302.9683582	140.0771258
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150.1664323	0.6045	294.0374835	146.7100525
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185.5063502	0.312166667	271.8947392	187.6456471
171.0902063	0.318333333	266.4121094	182.6736607
179.9814831	0.3855	276.7285452	174.5033862
164.8690842	0.363833333	281.1514753	164.9582776
167.4549526	0.4275	280.6768266	165.8856102
189.570065	0.392833333	273.6824901	182.4082795
166.6957159	0.434	278.9337742	169.4837552
163.5680069	0.476166667	282.8530676	161.8072609
157.7856737	0.548983051	286.2241522	156.3017539
147.7732763	0.587666667	293.9854239	146.7612009
145.1255952	0.709166667	293.5871248	147.1577397
143.0831939	0.601833333	296.2698629	144.6610301
140.3967545	0.594666667	304.4153473	139.371463
137.584534	0.645333333	310.0019181	137.522915
138.5601633	0.696	309.9713986	137.5293412
137.3747902	0.723	312.4969012	137.1308419
138.8674379	0.693666667	311.8788932	137.2035166
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143.5269566	0.620333333	300.1252248	141.7501628
147.5843497	0.592833333	298.1735885	143.1278528
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306.7045292	138.44856	1.266166667	313.7656395	137.031799	138.9134017
311.3623683	137.2765749	1.239166667	318.4132237	193.747258	151.3043853
316.2474274	193.747258	1.346666667	319.111495	193.747258	193.747258
317.548955	193.747258	1.314166667	321.5053948	193.747258	179.5613127
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321.8825996	193.747258	1.136	329.0821559	193.747258	193.747258
320.2503645	193.747258	0.9555	329.6599035	193.747258	193.747258
326.5756987	193.747258	0.951666667	332.0852372	193.747258	193.747258
322.93494	193.747258	1.179491525	325.4364239	193.747258	193.747258
315.0548654	193.747258	1.087	322.3286551	193.747258	179.5615811
309.6712879	137.5946449	0.873833333	320.2357864	193.747258	152.2397073
307.6075376	138.148275	0.812833333	317.6093673	193.747258	153.022817
306.7422828	138.4352901	0.858333333	317.1382712	193.747258	152.2667988
307.5019533	138.1815475	0.626	316.6798802	193.747258	151.6989626
298.7538562	142.6981236	0.646666667	310.704607	137.3858951	140.8278638
298.4083284	142.9519337	0.5135	310.2137285	137.4794071	145.0721417
295.9246723	144.9597809	0.693833333	309.3105938	137.6782143	145.3657292
295.9986967	144.8951683	0.836833333	305.7622383	138.8001437	145.1429492
294.3696805	146.3873495	0.850833333	304.1482147	139.494512	146.5366727
290.6188152	150.4140333	0.842	300.5055084	141.5038251	149.0861406
293.2005904	147.5514557	0.861666667	303.0264093	140.0469555	147.356729
293.0847065	147.6712149	0.847666667	302.2121944	140.4845097	147.3155816
295.877931	145.0007337	0.643	306.8954071	138.3821107	143.4708008
295.7941405	145.0744472	0.606	307.5900578	138.1537498	145.1230649
296.4747931	144.486729	0.666666667	306.8922081	138.3832112	146.0111635
296.2349859	144.6909207	0.723833333	305.5630784	138.8794966	146.3925156
290.7485872	150.2601723	0.625833333	301.4234475	140.9382157	153.4784212
274.426184	180.365532	0.530666667	285.4144361	157.540192	177.7644303
268.5891602	189.1475378	0.507	275.6962144	177.0487082	179.9900282
277.3123167	173.1207924	0.574166667	287.9829849	153.7819706	170.3469081
284.0816997	159.6921161	0.621166667	292.2289521	148.5805382	159.525004
281.9926325	163.3674145	0.686166667	291.6599189	149.2099301	161.4794768
274.678667	179.6892264	0.677833333	284.2292676	159.4466907	177.7785654
280.4288237	166.3788577	0.649	286.5908551	155.7574583	164.5789468
284.2430651	159.4238362	0.698833333	288.1369873	153.5720501	159.5927885
287.9229771	153.8642239	0.783833333	290.2617992	150.8429526	154.698651
294.3707629	146.3863084	0.87	298.6436662	142.7784027	145.9247971
294.5522823	146.2126604	0.981	300.9421945	141.2296648	144.931415
297.7333725	143.4654354	0.829333333	302.3466199	140.4101262	142.9049464
304.0046671	139.5619779	0.814666667	308.9873035	137.7578462	139.2720104
308.6815381	137.8372864	0.961333333	314.0829176	137.0175513	137.4905717
310.1781168	137.4865888	1.030666667	314.7881094	137.0009369	137.6442576
311.0269229	137.3300428	0.994666667	316.0864874	193.747258	151.3957332
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301.470107	140.9105507	0.886166667	307.6311171	138.1409107	141.3687865
301.5386674	140.8700894	0.768666667	307.6016559	138.1501157	141.0743311
301.2650967	141.0328827	0.810166667	307.8636107	138.0695924	142.4536694
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8/13/2019	2006	0.448666667	296.2438799
8/13/2019	2007	0.494	291.0782479
8/13/2019	2008	0.523	290.2162502
8/13/2019	2009	0.525166667	298.7672418
8/13/2019	2010	0.581666667	297.8344561
8/13/2019	2011	0.532833333	295.8588224
8/13/2019	2012	0.545166667	296.7096489
8/13/2019	2013	0.446166667	298.5811888
8/13/2019	2014	0.487	280.3773041
8/13/2019	2015	0.536	279.1928045
8/13/2019	2016	0.47	273.1102599
8/13/2019	2017	0.475333333	282.9564479
8/13/2019	2018	0.500333333	291.2927588
8/13/2019	2019	0.427	301.1134219
8/13/2019	2020	0.3235	316.6958332
8/13/2019	2021	0.293333333	321.2821978
8/13/2019	2022	0.238	321.1986429
8/13/2019	2023	0.211166667	324.4067013
8/13/2019	2024	0.169152542	322.1062478
8/13/2019	2025	0.118333333	331.2512124
8/13/2019	2026	0.1145	351.9280903
8/13/2019	2027	0.164333333	20.06260884
8/13/2019	2028	0.236833333	63.87369474
8/13/2019	2029	0.244333333	59.92867371
8/13/2019	2030	0.11	65.29002603
8/13/2019	2031	0.072333333	77.37495055
8/13/2019	2032	0.066833333	179.2588592
8/13/2019	2033	0.1205	196.9391687
8/13/2019	2034	0.081166667	217.5049856
8/13/2019	2035	0.1265	202.1377406
8/13/2019	2036	0.131333333	181.9637405
8/13/2019	2037	0.1225	168.2905368
8/13/2019	2038	0.101833333	167.0401018
8/13/2019	2039	0.139333333	175.4771252
8/13/2019	2040	0.137	231.9559189
8/13/2019	2041	0.409333333	256.7511655
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8/13/2019	2043	0.302333333	278.230865
8/13/2019	2044	0.3535	270.200649
8/13/2019	2045	0.4065	269.6848993
8/13/2019	2046	0.352166667	263.1668554
8/13/2019	2047	0.310166667	258.0303265
8/13/2019	2048	0.192666667	240.9213251
8/13/2019	2049	0.115833333	224.9017199
8/13/2019	2050	0.099833333	241.5262008
8/13/2019	2051	0.091666667	243.4052303
8/13/2019	2052	0.1105	244.4001957
8/13/2019	2053	0.135333333	232.0932924
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161.6242563	0.611166667	284.9588955	158.2595651
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193.747258	0.397166667	319.4023769	193.747258
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162.2142399	0.098	33.37038699	139.8713929
191.2889416	0.089666667	272.2325205	186.6191634
155.2498259	0.142166667	192.4586071	162.5142384
138.1805851	0.1	215.1666917	139.0427066
148.6800811	0.137166667	210.6799971	141.3931647
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163.8955893	0.161333333	179.4973483	192.0696576
161.6181648	0.153166667	174.0250652	176.3485501
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138.0158492	0.1735	214.5521454	139.3097055
161.1117376	0.459	258.0481317	163.4429933
166.8768872	0.522166667	277.831268	171.9248594
171.0246864	0.3535	270.0565306	193.5563807
193.0723068	0.4105	264.1174902	176.5796484
192.6904675	0.439833333	268.3460278	188.3882488
174.2527007	0.448	257.8313115	163.042746
163.4099628	0.383	257.3279307	162.1299386
142.4650628	0.310166667	242.5753612	143.7082121
137.0002015	0.244666667	222.1161429	137.1737207
142.903373	0.166166667	223.2196918	137.0661623
144.3857356	0.117166667	226.7885385	137.0667757
145.2468976	0.162333333	237.6614385	140.4145613
138.0566301	0.179166667	225.0642766	137.0000862
139.4379371	0.215833333	239.3875863	141.4358498
146.7104429	0.2215	248.0436713	148.8795832
173.1166042	0.227	263.3750052	174.7528436

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295.9342498	144.9514043	0.8365	299.3406942	142.2809426	146.2707688
302.1176724	140.5373234	0.853333333	305.9795528	138.7155716	140.5186842
304.6934135	139.2468202	0.948	306.0162936	138.7014806	140.1993532
302.0329706	140.585009	0.946	305.0428493	139.0951425	141.4836994
300.3417321	141.6090454	0.862333333	301.7672746	140.7367988	142.0430921
300.1528737	141.7320131	0.7595	302.5757622	140.2852919	141.4238107
284.8021903	158.5108714	0.805333333	290.1227825	151.0122185	159.4004319
280.9816776	165.2875197	0.868833333	286.9546501	155.2274731	163.850349
276.0056426	176.2720037	0.788833333	280.7839459	165.6744244	174.7452258
286.4970786	155.8956819	0.864833333	286.4454279	155.9720968	157.9379
291.5129521	149.3757526	0.772166667	290.6744928	150.3478875	149.1859837
302.1166302	140.537908	0.715333333	298.8123272	142.6557753	140.7891618
315.0209024	193.747258	0.618833333	309.2418526	137.6947718	179.7341365
318.2839845	193.747258	0.5325	312.3795942	137.1434039	179.5962945
319.2133355	193.747258	0.464833333	315.8888533	193.747258	193.747258
320.9358027	193.747258	0.4325	316.3159583	193.747258	193.747258
322.5547808	193.747258	0.379666667	316.4455638	193.747258	193.747258
321.027878	193.747258	0.317166667	314.3559456	137.0086559	179.5626075
333.740787	193.747258	0.309166667	322.5110675	193.747258	193.747258
356.9829183	193.747258	0.300833333	339.8991968	193.747258	180.1617121
41.34709321	137.2789065	0.272	34.49134604	139.3370486	139.644341
30.85657989	141.2826851	0.3265	21.41943643	149.4819707	142.5000373
20.81582484	150.1808802	0.252166667	11.23521919	164.796911	151.5482777
9.573904568	168.1262403	0.144833333	350.8481921	193.747258	165.9897828
257.2237038	161.943772	0.083333333	330.7442236	193.747258	183.3997838
206.2192084	144.7044641	0.065666667	243.9745408	144.8718821	151.8351027
234.3990116	138.8642555	0.1035	275.0752093	178.644186	148.6829333
222.4403543	137.1368253	0.140338983	254.2253339	156.9829428	146.0482535
208.0301296	143.236762	0.142166667	250.858109	152.2430458	161.5126899
187.5380832	172.5967303	0.116333333	233.9986813	138.7072166	166.8172985
184.7097616	179.6065274	0.125166667	227.2646134	137.1070819	163.6700811
192.263874	162.8683889	0.1785	223.3964964	137.0536694	166.3371315
213.1612713	139.9774695	0.250166667	234.1146103	138.7519593	139.0137459
258.8717037	165.0030597	0.5365	264.766087	178.2317229	166.9473784
268.4077467	188.5800944	0.578166667	264.8325926	178.4041692	176.4465025
257.2508268	161.9921254	0.488	254.5490996	157.4833211	171.0141284
258.7707595	164.8084093	0.499166667	260.6706497	168.6398047	175.7750423
261.1838702	169.7379433	0.4745	262.2122343	172.0239357	180.7101488
257.3347171	162.1420936	0.446833333	262.8939214	173.6046761	168.2605541
259.5497917	166.3360881	0.521166667	263.8406021	175.8904896	166.9416198
246.3316874	147.0761598	0.414166667	250.3379618	151.5823423	146.2079443
229.8218832	137.4865888	0.36	237.8125863	140.498315	138.0397065
227.2469314	137.1054152	0.3185	237.1347997	140.1311262	139.3015192
230.5317777	137.6410098	0.276833333	241.567373	142.9338854	140.5068516
238.4208975	140.8463319	0.255333333	247.7871617	148.5980868	143.7764694
229.850399	137.4923783	0.271333333	246.6965637	147.445838	139.9987331
243.4048127	144.3853854	0.2505	259.6086778	166.4539709	147.9282858
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8/13/2019	2058	0.122711864	328.329408
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8/13/2019	2100	0.173	281.9369414
8/13/2019	2101	0.176666667	275.4395917
8/13/2019	2102	0.258833333	274.5244247
8/13/2019	2103	0.3095	280.540884
8/13/2019	2104	0.3125	285.5692994
8/13/2019	2105	0.305833333	281.6078652
8/13/2019	2106	0.380666667	279.5187622
8/13/2019	2107	0.359	271.9953919
8/13/2019	2108	0.455	276.5498205
8/13/2019	2109	0.4445	281.7483211
8/13/2019	2110	0.4525	280.6065064
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8/13/2019	2112	0.418833333	274.8032261
8/13/2019	2113	0.432166667	283.1938212
8/13/2019	2114	0.4035	282.236602
8/13/2019	2115	0.378166667	276.6243086
8/13/2019	2116	0.375166667	266.3412167
8/13/2019	2117	0.4395	258.2647952
8/13/2019	2118	0.428666667	256.5275212
8/13/2019	2119	0.428	246.8780786
8/13/2019	2120	0.394666667	234.3076073
8/13/2019	2121	0.451333333	232.3178613
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8/13/2019	2129	0.441833333	237.3435811
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284.7872481	158.5349377	0.374666667	282.9824996	161.5782876	160.1925012
283.7778399	160.2032189	0.388	283.5217848	160.6399774	161.8752723
277.0304771	173.7832982	0.389	278.2596407	170.9605474	173.1200785
277.7061899	172.2102998	0.4985	280.6580293	165.9227846	172.7002074
283.7039833	160.3286253	0.658333333	283.6492396	160.4218773	160.8464395
284.7325973	158.623114	0.63	283.3245287	160.9802661	156.6429961
283.0996956	161.3722283	0.707	281.6349973	164.0357191	160.7509843
276.5767781	174.8694383	0.706166667	276.9248735	174.0339297	170.0777905
271.8181652	187.8808302	0.7255	274.0528889	181.3813124	184.5225381
271.170164	189.9085887	0.811	274.8659758	179.193007	179.8070662
279.3317403	168.6347558	0.788305085	277.6975663	172.2300448	165.7148238
276.3376468	175.4518388	0.747833333	277.2755422	173.2067122	169.2486124
272.6265902	185.4438249	0.7435	275.2217379	178.2632496	174.7499563
274.3481614	180.5762663	0.703166667	274.936684	179.0068948	176.3236115
276.4369426	175.2091644	0.727833333	277.1439777	173.5153843	167.3651746
278.6500847	170.0992313	0.713666667	277.4230862	172.8629354	166.1497721
273.7788317	182.1393124	0.646833333	274.2689657	180.7910165	176.7743701
266.2548582	182.2332195	0.6285	269.8009876	193.0777836	184.0628346
261.1401325	169.643269	0.681666667	268.3689872	188.4595442	171.3638736
258.7924679	164.8501875	0.665	267.1984376	184.9294853	167.9556145
251.9112617	153.6376372	0.661166667	259.6770344	166.5912432	154.7741503
240.1382859	141.9250339	0.684833333	254.1340091	156.8432793	144.8583133
237.5589649	140.358391	0.758666667	252.7064338	154.742562	143.2798226
240.5761659	142.223241	0.7925	252.8338127	154.9238205	144.5515214
236.6617816	139.8875791	0.7015	248.7724959	149.7016982	142.9506825
248.2502982	149.1092914	0.623833333	254.4175537	157.2790274	155.4560743
246.7102701	147.4598776	0.548	254.2598677	157.0359244	151.727535
235.2769154	139.233727	0.624666667	246.2731967	147.0176257	140.9606845
229.765372	137.4752175	0.615666667	240.7991295	142.3787665	139.2000329
229.5077604	137.4250974	0.710166667	244.5156402	145.3503275	139.8747879
236.579117	139.8460813	0.7515	246.0306363	146.7770117	142.0815817
239.6765826	141.6208935	0.726333333	247.2372161	148.0081082	143.216212
239.0233989	141.2084572	0.653333333	249.2780753	150.2916955	144.6501463
244.4694474	145.3088536	0.552166667	254.1820899	156.9167288	152.9156927
249.5839985	150.6566764	0.523	255.7898626	159.4784046	154.838857
264.7027418	178.0680041	0.378	264.0711926	176.4637535	182.5705625
275.4616539	177.6455266	0.426333333	272.1043622	187.006534	170.3311665
292.7549609	148.0163723	0.508666667	282.3128532	162.7789908	149.9007746
298.1618469	143.1367267	0.526333333	289.873572	151.3188422	146.5205328
300.1669007	141.7228196	0.605666667	290.9581278	150.0140213	144.1883356
291.2892739	149.6307293	0.672	285.7535677	157.0153008	151.7012106
295.4551743	145.3765924	0.694333333	288.3678965	153.2604405	146.3905683
290.951241	150.0220666	0.7625	286.6699725	155.6413562	151.7488123
286.6651134	155.6484732	0.744666667	284.1913805	159.5095291	156.0583753
284.3637594	159.2245876	0.698	283.1243399	161.3290504	161.3511348
291.6277977	149.2460571	0.686949153	287.415686	154.5699014	147.6364908
294.095878	146.6528666	0.701166667	286.833242	155.4032456	147.3373536
290.4163446	150.6562637	0.7645	285.7982022	156.9468869	150.1409668
283.919042	159.9647462	0.7915	283.4132479	160.8268015	156.2977979

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8/13/2019	2148	0.553333333	281.2370399
8/13/2019	2149	0.632166667	276.8975622
8/13/2019	2150	0.540666667	275.9020998
8/13/2019	2151	0.5055	270.0178741
8/13/2019	2152	0.444	265.1844166
8/13/2019	2153	0.405666667	249.8798264
8/13/2019	2154	0.5605	254.0096925
8/13/2019	2155	0.571833333	250.1080124
8/13/2019	2156	0.630833333	247.5035297
8/13/2019	2157	0.743166667	244.5715627
8/13/2019	2158	0.700166667	252.3835592
8/13/2019	2159	0.5395	257.7208618
8/13/2019	2200	0.5845	259.5014183
8/13/2019	2201	0.516166667	260.3519792
8/13/2019	2202	0.405166667	271.9722267
8/13/2019	2203	0.58	282.937315
8/13/2019	2204	0.595166667	278.5789235
8/13/2019	2205	0.550847458	288.2778845
8/13/2019	2206	0.500666667	287.4860684
8/13/2019	2207	0.539666667	289.532608
8/13/2019	2208	0.5025	298.5923087
8/13/2019	2209	0.4085	301.7065898
8/13/2019	2210	0.3785	300.8858507
8/13/2019	2211	0.362166667	302.6150843
8/13/2019	2212	0.384666667	307.6489568
8/13/2019	2213	0.342166667	277.4942606
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8/13/2019	2215	0.271333333	249.8553843
8/13/2019	2216	0.449166667	249.7437324
8/13/2019	2217	0.371833333	252.1602292
8/13/2019	2218	0.352166667	258.967224
8/13/2019	2219	0.407833333	264.7983268
8/13/2019	2220	0.413833333	273.3176437
8/13/2019	2221	0.463833333	277.065379
8/13/2019	2222	0.527833333	282.9138137
8/13/2019	2223	0.477333333	283.2514881
8/13/2019	2224	0.500666667	284.5957011
8/13/2019	2225	0.396833333	298.9016415
8/13/2019	2226	0.319	291.5325472
8/13/2019	2227	0.317333333	295.0897393
8/13/2019	2228	0.282833333	290.8576018
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8/13/2019	2232	0.295833333	254.3518565
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164.79341	0.665166667	279.9206554	167.4086094
174.0989623	0.7255	276.2166887	175.7490788
176.5305768	0.6255	276.3533278	175.4134355
193.6868446	0.565166667	273.3556991	183.3304398
179.3260487	0.5035	266.0392315	181.634935
151.0154073	0.481666667	256.8766859	161.3308466
156.6541991	0.631	255.4062675	158.8482579
151.2960435	0.695666667	250.2616046	151.4868829
148.2915157	0.81	248.8732833	149.8180142
145.4006953	0.813666667	247.4741828	148.2600748
154.2884183	0.773166667	249.1212322	150.1069157
162.8405049	0.618333333	256.9309171	161.4259371
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167.9718164	0.584833333	259.0440478	165.3376433
187.4085972	0.469166667	268.9018851	190.1382645
161.6580547	0.6595	282.9323017	161.6669159
170.2549765	0.682166667	277.4540866	172.7910236
153.381464	0.638833333	283.7295261	160.2852021
154.4708837	0.672333333	285.7449511	157.0285257
151.7450432	0.5965	289.2055246	152.1612338
142.8160308	0.576333333	296.1916652	144.7281396
140.7719383	0.497166667	295.058909	145.7378941
141.264518	0.456166667	292.8802707	147.8844386
140.2641174	0.462881356	296.1278642	144.7831398
138.1353551	0.529	300.782651	141.3287546
172.697996	0.426666667	276.4749117	175.116686
179.1413737	0.4225	275.343401	177.949072
150.9855506	0.396	255.0642358	158.2965358
150.8496637	0.504	252.3249773	154.2068287
153.9787009	0.457	253.9364651	156.5433812
165.1881477	0.449166667	257.5892105	162.6008851
178.3152478	0.463833333	263.0727742	174.0283327
183.4388222	0.466166667	271.6321112	188.4561313
173.700753	0.5715	274.9062914	179.086811
161.6996138	0.580833333	279.1604753	168.9980793
161.1071202	0.559666667	279.1332707	169.0560748
158.8450551	0.593666667	283.3014108	161.0203664
142.5914234	0.509166667	290.6763551	150.3456785
149.3535654	0.426666667	286.8080409	155.4398688
145.7094695	0.440333333	289.2980807	152.0427284
150.1317597	0.439166667	286.3380966	156.1315345
170.5908684	0.363	278.0256303	171.4847965
165.0882311	0.3435	263.6668379	175.4628276
144.2434811	0.499666667	251.10769	152.5665954
157.1775066	0.451833333	257.4678436	162.3813662
178.2376788	0.4	264.1666293	176.7029494
170.289823	0.443666667	262.2767696	172.1713076
178.0319951	0.493	263.9213436	176.0904699
184.002949	0.442833333	272.6375969	185.411335
153.1508898	0.473833333	283.3806642	160.8830853
149.3228717	0.581333333	285.6293451	157.206521

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276.2638926	175.6328679	0.983666667	278.6335493	170.1353723	169.4925649
273.3559476	183.3297327	0.973666667	275.2974926	178.0673993	177.8112933
274.6522372	179.7596207	0.913	276.8594306	174.1899075	176.4733851
269.8285835	193.1702003	0.800333333	270.9806401	190.5145877	190.1755181
265.2290115	179.4440654	0.684166667	269.432931	191.8578262	183.0657188
254.7324613	157.7703626	0.640333333	261.452082	170.3230072	160.1099059
253.4933249	155.8815064	0.778333333	259.2251128	165.6922404	159.2690509
250.7000272	152.0403118	0.851666667	255.4552884	158.9281122	153.4378376
248.1646388	149.0137422	0.974	253.5492399	155.9641986	150.7718677
247.1370082	147.9025749	0.998666667	255.6666953	159.2747501	150.2095238
250.3714445	151.6243243	0.937	257.3364604	162.1452167	154.5412187
255.5530144	159.0878938	0.734	259.6420685	166.5209675	162.4688258
258.6763277	164.627194	0.787666667	263.3046719	174.5832679	166.6634896
260.2245402	167.7076099	0.738333333	263.8141859	175.8252365	169.2105765
263.3562065	174.7074614	0.6615	267.422796	185.58983	184.4610383
276.9607878	173.9485461	0.877	275.2192969	178.2695727	168.8857724
274.1359669	181.1535928	0.934	274.9335187	179.0152123	175.8037013
278.9199187	169.5136155	0.8135	278.5131634	170.3993883	163.3949174
282.2781059	162.84239	0.8245	279.6550859	167.9571255	160.5747313
286.1836295	156.3625286	0.799833333	282.9733286	161.5944632	155.4658172
292.2688468	148.5371596	0.729333333	286.1187934	156.4600291	148.1353398
297.2625936	143.8376407	0.647833333	290.2237675	150.8891338	145.3091517
294.2703641	146.4831628	0.653666667	286.9342211	155.2569733	147.7222732
297.369151	143.7523756	0.679	289.5067866	151.7776366	145.1443173
299.5580411	142.1308271	0.7105	290.6733718	150.3492172	142.9860385
278.0292633	171.4766112	0.643333333	278.7288238	169.9275379	172.3047078
275.2423708	178.2098333	0.669	276.8413426	174.2331081	177.3833468
254.6454359	157.6337979	0.528333333	264.0161636	176.3263486	160.8105582
247.0879608	147.8511406	0.6805	254.7793446	157.8441833	152.6879541
252.1462783	153.9594724	0.621333333	256.0305385	159.8800009	156.0903888
252.6641239	154.6826183	0.617118644	258.0399145	163.427746	161.4748493
258.6767618	164.6280252	0.689666667	260.0467835	167.3418502	171.078364
269.3525283	191.594422	0.744833333	268.7465687	189.6442148	188.2833976
271.011766	190.414655	0.829	271.6388013	188.4353493	182.909392
276.1502202	175.9131805	0.794833333	276.1353549	175.9499553	170.6402072
274.0486211	181.3930363	0.783	274.0750694	181.3204215	173.2191632
280.0883378	167.0659579	0.798833333	278.1712711	171.1578076	164.5222968
292.6003401	148.180469	0.714166667	284.8856305	158.3768126	149.8735959
292.7141231	148.0595727	0.666666667	286.5012167	155.8895685	152.1856438
294.3455736	146.4105541	0.653166667	286.7980786	155.4543594	149.9042778
290.4261196	150.644508	0.679833333	284.8803345	158.3853046	153.8232767
281.1322028	164.9955086	0.609666667	281.8858837	163.5656559	167.6592074
265.7782418	180.9194338	0.557166667	273.3590917	183.3207877	176.19782
251.1704253	152.6485961	0.5975	265.0339065	178.9296796	157.0970881
256.3274729	160.3821775	0.640833333	266.9578373	184.2296656	166.042679
262.7948499	173.3716132	0.703333333	269.8485612	193.2371872	180.3873572
260.316328	167.897737	0.695	267.3520377	185.3807544	173.9349055
262.379385	172.4066108	0.693833333	266.9716745	184.2696815	177.6996893
270.0934012	193.4321901	0.771	271.5336736	188.7627464	187.9023051
281.5102443	164.2716394	0.716666667	277.4207748	172.8683017	162.7934791
287.2050474	154.868397	0.813333333	281.5058393	164.2799964	156.4194465

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8/13/2019	2240	0.344333333	280.8292012
8/13/2019	2241	0.373	283.9692881
8/13/2019	2242	0.311	276.294472
8/13/2019	2243	0.1955	288.5482998
8/13/2019	2244	0.2345	253.0122817
8/13/2019	2245	0.289833333	234.2450432
8/13/2019	2246	0.276333333	240.6864582
8/13/2019	2247	0.290666667	236.8917715
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8/13/2019	2254	0.304166667	287.0858198
8/13/2019	2255	0.322333333	268.3773614
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8/13/2019	2257	0.411833333	272.1718729
8/13/2019	2258	0.363833333	274.3809435
8/13/2019	2259	0.283833333	284.0285554
8/13/2019	2300	0.203333333	290.8778697
8/13/2019	2301	0.235833333	291.1975664
8/13/2019	2302	0.2365	305.1681571
8/13/2019	2303	0.27	278.0413088
8/13/2019	2304	0.304833333	285.382228
8/13/2019	2305	0.272166667	296.7256851
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8/13/2019	2310	0.607666667	300.8901782
8/13/2019	2311	0.643166667	307.1951962
8/13/2019	2312	0.647	304.0475816
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8/13/2019	2327	0.616	279.9484876
8/13/2019	2328	0.662333333	285.4644376
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159.8802919	0.499166667	279.7537323	167.752538
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153.019593	0.263166667	287.6419442	154.2528682
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138.8030138	0.470333333	242.357504	143.5363793
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184.5647631	0.376666667	269.1858382	191.0518284
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167.969513	0.334333333	277.7161371	172.1875346
189.1886864	0.332666667	266.3148831	182.4009289
155.0387957	0.4195	281.983786	163.3838033
188.4855692	0.442666667	269.5223419	192.1520389
170.6238934	0.4875	259.7190989	166.6759468
186.8021599	0.4715	270.5063942	192.0573312
180.4876232	0.425333333	272.8058067	184.9170656
159.7809473	0.393166667	278.7440404	169.8944347
150.1079693	0.304833333	285.3148091	157.696109
149.7361813	0.2825	286.6551032	155.6631405
139.0420903	0.358666667	298.2330431	143.0830281
171.4494823	0.367833333	277.8262449	171.9362886
157.590512	0.394	282.1953511	162.9938235
144.2764163	0.407666667	290.5648168	150.4783756
152.2840147	0.474833333	284.9155754	158.3288388
157.534523	0.391166667	282.737571	162.0128292
142.9763543	0.5245	292.0071094	148.8235343
143.763925	0.586833333	292.0845569	148.7383583
141.2618357	0.716833333	298.3164427	143.0204573
138.2809716	0.710166667	301.7123845	140.7685753
139.5417099	0.789166667	300.9306915	141.2367679
140.9569991	0.939666667	296.5649213	144.410789
138.8983005	0.8595	303.262477	139.9258788
143.858072	0.672833333	295.1766449	145.6296314
140.8074147	0.857666667	297.3359901	143.7788462
142.273284	0.773	295.724301	145.1361822
147.5617252	0.812	291.0750148	149.8779321
142.8339642	0.86	294.3703686	146.3866877
144.0725885	0.858644068	292.1714846	148.6431954
143.2579805	0.885833333	293.0890861	147.6666743
151.1664043	0.811333333	287.5245787	154.4168578
152.8049384	0.752166667	287.6268251	154.2739376
146.8252488	0.856666667	289.7645775	151.4542405
152.5376102	0.941166667	286.1371262	156.4324276
167.1068174	0.804	279.6120876	168.0466141
167.3515389	0.758333333	278.7312181	169.9223275
157.4622346	0.832	282.8206684	161.864808
154.4719971	0.932666667	284.5820797	158.8672223

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282.6073378	162.2460459	0.791166667	279.7803465	167.6975119	162.9647798
279.3423646	168.6123182	0.774166667	278.6264676	170.1508596	167.2750541
278.8944494	169.5685579	0.757666667	278.2579881	170.9642284	167.041404
281.6973211	163.918403	0.6035	280.8675215	165.5104293	169.2883423
285.9010011	156.7899094	0.527833333	281.0582091	165.1387812	157.300288
261.7229362	170.9217568	0.5645	267.700422	186.4174857	169.1550576
241.0749201	142.5746028	0.664333333	253.4965648	155.8862916	145.2000719
244.3333106	145.1873102	0.664166667	254.5095943	157.4218255	147.8280446
235.6846192	139.4171302	0.7145	248.3572105	149.2291877	142.642382
256.575587	160.8075363	0.638833333	260.5477829	168.3810092	172.4019159
267.4579728	185.6940508	0.640333333	267.925134	187.0960494	181.487909
264.5430652	177.6576056	0.671833333	267.2531306	185.089766	184.5909908
269.5841393	192.3561891	0.725333333	268.6376534	189.3001206	184.4554288
272.069753	187.1115802	0.5735	269.2813727	191.3622286	179.6577141
263.4241521	174.8716905	0.540677966	262.7470232	173.2595113	179.9302043
277.9728934	171.6037821	0.669166667	273.7893133	182.1101287	168.0341275
265.9169599	181.2985567	0.667833333	267.700268	186.4170236	187.0882971
256.1959397	160.1588087	0.695166667	260.4150629	168.1032178	166.3904667
265.8002273	180.9793448	0.67	267.0178332	184.4033719	186.060552
267.1287438	184.7258894	0.604666667	266.9710615	184.2679083	183.5996216
275.0480187	178.7151824	0.622833333	272.8498359	184.7883876	173.294738
282.2670796	162.8625312	0.551666667	277.3307213	173.0778508	160.9361151
284.621416	158.8032487	0.512833333	280.0658116	167.1118244	157.8285987
297.1047601	143.9650378	0.506833333	285.4485774	157.486941	145.8942743
276.1783008	175.843787	0.639666667	275.0683672	178.662042	174.4729
280.3464622	166.5440056	0.652166667	279.8616922	167.5297736	163.6645287
292.096782	148.724947	0.653166667	285.7445494	157.0291425	150.1272204
285.7907986	156.9582242	0.719166667	281.9343598	163.4755018	157.7616449
283.9393251	159.9306286	0.698166667	281.6845221	163.9424659	160.8551117
293.1205686	147.6340682	0.846166667	288.0287188	153.719455	148.288353
296.5987996	144.3823567	0.929666667	292.9317411	147.8305205	146.1787901
299.9753257	141.8492181	1.003166667	295.6162823	145.2321945	142.8409264
303.259707	139.9272845	1.031166667	297.2259378	143.8671105	140.7109855
303.1950366	139.9602045	1.0595	296.7315461	144.2715436	141.2525565
296.5087853	144.4580366	1.245	293.8300928	146.9147467	144.1851428
304.8464148	139.17973	1.108	299.1353021	142.4249783	140.1072219
298.2076453	143.102154	1.076666667	294.990634	145.8010315	144.5977222
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295.7640113	145.1010472	1.079666667	292.4154165	148.3786247	145.2222845
292.4368947	148.3555031	1.073166667	293.6929999	147.0514299	148.2116476
295.0704	145.7272935	1.067333333	292.9398669	147.8220227	145.692492
291.8840473	148.959638	1.135	287.7777809	154.0643101	148.934933
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287.989192	153.7734771	1.058166667	284.5500174	158.9194595	154.5690497
287.2668717	154.7804494	1.027333333	286.9615556	155.2175083	154.2692084
292.0842994	148.7386409	1.133	288.9460586	152.4965565	149.8786717
287.1114373	155.0020953	1.248666667	287.1649953	154.9255224	154.7244139
279.3922449	168.5071332	1.1135	280.760566	165.7204226	167.3452468
278.5728011	170.2684018	1.118135593	279.3492763	168.5977276	169.034999
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8/13/2019	2330	0.7775	284.5871228
8/13/2019	2331	0.820333333	283.935189
8/13/2019	2332	0.756833333	287.5840865
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8/13/2019	2343	0.817666667	282.6671423
8/13/2019	2344	0.657166667	284.0392041
8/13/2019	2345	0.634666667	287.3655969
8/13/2019	2346	0.638166667	286.1345938
8/13/2019	2347	0.564237288	290.5156102
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153.6736491	0.6825	284.97597	158.2323023
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146.715279	0.7375	289.6026712	151.6568305
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151.3533544	0.741333333	286.940472	155.2479435
152.2752142	0.667	286.9861287	155.1820776
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169.9960569	0.45	280.0159435	167.2135445
175.6702005	0.475666667	275.4849723	177.5858813
165.3849654	0.543166667	279.4826254	168.3172019
169.3136815	0.482833333	280.2082029	166.8227517
172.6084306	0.430166667	277.8405004	171.9038602
180.7654433	0.383666667	274.9114096	179.0733442
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191.1908797	0.544333333	269.7290419	192.8374679
177.8815935	0.413166667	267.3457136	185.3621047
180.6107948	0.342833333	264.5476861	177.6694362
164.1185942	0.328833333	278.3001244	170.8704664
193.0780296	0.333333333	269.814042	193.1214853
160.2375662	0.254833333	257.4732067	162.3910386
137.6950682	0.189	221.645671	137.2351133
170.5816644	0.224666667	272.9939449	184.3692289
158.8436561	0.147333333	214.3225952	139.4138193
175.2933949	0.158333333	273.7409968	182.2447841
143.2892138	0.218	247.1243613	147.8892988
165.5383369	0.349333333	277.1023817	173.613395
147.2643974	0.279666667	245.6271839	146.3843338
191.1990019	0.3245	265.6483006	180.5666923

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281.1211027	165.0169682	1.1895	278.349091	170.7617506	164.1012916
285.4131868	157.5421422	1.1805	282.9889457	161.5669226	158.4025336
288.0605594	153.6760184	1.527833333	284.8058901	158.5049152	152.1752103
285.3839908	157.5877558	1.073166667	283.1534674	161.2780858	158.0419102
278.9925437	169.3573271	0.987333333	278.5310755	170.3600061	167.6276141
284.9117116	158.3350248	1.189166667	282.7595079	161.9736937	156.071688
286.8403654	155.3929022	1.504333333	285.4011465	157.5609449	154.306318
287.047488	155.0938016	1.562	285.3151707	157.6955417	152.5480053
290.47465	150.5862359	1.289166667	287.3704644	154.6337117	150.7284213
287.2807508	154.7607443	1.189666667	283.9626302	159.8914705	155.4138273
284.8315169	158.4636897	1.500833333	284.8951171	158.3616065	157.8012527
282.3272504	162.7527541	1.312166667	280.8342408	165.5756529	159.5507246
278.9281684	169.4958338	1.255666667	280.6641179	165.9107398	165.7721193
282.0475711	163.265797	1.121166667	281.2643046	164.7410222	162.3662963
285.3823514	157.5903192	1.115833333	284.9162151	158.3278147	157.2424823
282.9294576	161.6719441	1.029	282.3408525	162.7279833	160.28515
288.2816155	153.3764362	0.928833333	285.485342	157.429701	153.4722299
288.8553453	152.6148787	1.025666667	285.0718957	158.0795745	154.130333
286.2810375	156.2166505	0.867166667	284.9906104	158.208945	156.5828867
287.1228147	154.9858111	0.906333333	285.4031808	157.5577673	154.4162368
287.0745631	155.0549378	0.952833333	286.2601462	156.2478762	154.6029704
289.3719516	151.9485634	0.996666667	286.2825557	156.2143825	153.2823988
289.8668905	151.3271197	1.05	288.4616435	153.1349995	150.7085572
291.9798521	148.8535995	1.021666667	288.8755178	152.5885177	149.2066029
293.0177121	147.7408142	1.117333333	289.7211501	151.5084085	148.3776322
287.5074565	154.4408652	1.071333333	286.8802129	155.335112	154.0943188
291.8643194	148.9815437	0.935	289.1887107	152.1828241	152.1554149
286.228223	156.2956555	0.9065	285.2088852	157.8627437	156.2185022
283.6131571	160.4834809	0.813833333	283.3873227	160.8715761	159.0698637
278.4266533	170.590084	0.788	279.7999955	167.6569331	168.8641546
275.9339435	176.4509127	0.820338983	277.975994	171.5967779	175.3259431
279.3346572	168.6285942	0.7825	279.2748766	168.7550465	167.771452
280.6308613	165.9765742	0.7255	279.7695054	167.7199176	167.4582312
276.0161755	176.2457752	0.7065	278.3823918	170.6879662	172.8615081
274.414039	180.3982805	0.745333333	276.9345932	174.0108068	178.5619687
272.3575908	186.2435675	0.962666667	275.2472649	178.197171	182.8834819
271.424778	189.1037522	0.846333333	274.1153025	181.2101454	188.5855613
267.1096811	184.6703274	0.6995	271.717742	188.1906674	184.0261732
261.6612436	170.7846736	0.628166667	264.5276652	177.6181976	176.6707756
271.1852335	189.8606585	0.542333333	270.4662401	192.1897093	179.2598571
266.2695985	182.2743567	0.522666667	267.2085371	184.9590488	188.3582301
260.567753	168.4229656	0.5355	263.4201302	174.8619537	166.478381
219.0659097	137.7380721	0.377166667	234.6891515	138.9825368	137.9126976
268.7276474	189.5842983	0.2665	267.0710589	184.55792	182.2732779
219.1527346	137.7165384	0.232666667	246.7680504	147.5191849	145.8732997
274.4251571	180.3683002	0.328333333	279.6955645	167.8730545	176.4448834
257.5078089	162.4535064	0.432	268.6998771	189.496466	160.7821212
274.6541764	179.7544526	0.565666667	274.8575165	179.2153171	174.5303754
244.217012	145.0842876	0.422166667	250.9016354	152.2991653	147.758046
264.2423877	176.893637	0.485666667	271.434958	189.0717924	184.4327809

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8/14/2019	0022	0.284333333	272.5151191
8/14/2019	0023	0.281333333	270.5345165
8/14/2019	0024	0.297333333	278.1356702
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8/14/2019	0027	0.3495	276.4456191
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8/14/2019	0029	0.232333333	248.1800366
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259.6033539	166.443299	0.563833333	264.163255	176.6944727	167.9453515
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276.4107501	175.2730614	0.665166667	274.6939406	179.6485887	178.943436
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283.5110755	160.6583664	0.8545	286.1085547	156.4754554	159.6176927
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293.9937183	146.7530412	0.933833333	294.0988242	146.6499866	148.1091672
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285.3037079	157.7135312	0.649333333	287.23764	154.8219978	154.313399
290.8363343	150.1567516	0.855	295.6263657	145.2232047	147.8216486
285.0746526	158.0751961	0.837333333	288.0665023	153.6679192	155.7822522
278.0792175	171.3642101	0.735	282.0603114	163.2422712	167.408091
278.3494026	170.7610596	0.895833333	282.9128349	161.7013456	167.7581413
278.0386438	171.4554831	0.888	279.9750529	167.2971395	170.2889043
276.7799708	174.3799756	0.881666667	279.8615856	167.529993	169.2125184
274.2210292	180.9214194	0.932833333	279.0473393	169.239778	176.5259651
281.0551896	165.1446388	0.8145	284.4020606	159.1616094	159.3123636
287.056476	155.0808941	0.836	290.4611961	150.6023751	152.6510398
285.7221728	157.0635145	0.892666667	288.8344383	152.6422292	155.2452122
289.6664827	151.5767753	0.813166667	294.2171694	146.5347139	148.121541
288.5227011	153.0536302	0.887666667	292.8264151	147.9410255	149.3482743
286.3241887	156.1522583	0.873166667	291.2120693	149.7194693	151.9079078
293.3668382	147.381039	0.904	296.5977183	144.3832633	145.6847468
288.355727	153.2767694	0.771166667	290.6614378	150.363379	151.1987972
296.5812796	144.3970526	0.752372881	298.9752448	142.5386953	143.7385028
289.6790317	151.5610639	0.798333333	291.5205748	149.3671187	150.1069592
285.8129772	156.9242746	0.893	289.8896279	151.2989636	153.8782781
285.2478444	157.8013513	0.938333333	287.3144599	154.712944	154.5619444
283.2570747	161.0974014	0.991	287.6934195	154.1812578	155.5899024
288.4286958	153.1790161	1.04	290.9828806	149.9851293	151.1122916
290.3990969	150.6770214	0.951333333	294.3570266	146.3995257	148.2423309
288.4970251	153.0878159	0.8955	292.1879079	148.6252683	150.3094354
287.0652361	155.0683197	0.857166667	290.3355469	150.7536718	154.3360616
293.4159327	147.3310257	0.779333333	295.8940152	144.9866279	146.2486289
284.7422386	158.6075406	0.7615	288.9820944	152.44971	155.4798837
282.5717814	162.3099816	0.776333333	286.1372489	156.4322429	158.6004674
289.8202393	151.384996	0.708333333	294.0611919	146.6868111	148.3396003
286.033711	156.5884651	0.773333333	289.9677821	151.2024454	154.0416134
286.921703	155.2750652	1.004833333	290.9513707	150.0219151	153.0015303
285.4284616	157.5183048	1.033166667	289.2909735	152.0518075	154.6907537
284.9881363	158.212891	0.912666667	287.7025203	154.1686169	155.1706786
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8/14/2019	0203	0.594833333	286.864363
8/14/2019	0204	0.561833333	285.3842932
8/14/2019	0205	0.683333333	285.656172
8/14/2019	0206	0.6705	282.8462269
8/14/2019	0207	0.606166667	276.3443097
8/14/2019	0208	0.603166667	275.9876564
8/14/2019	0209	0.550333333	259.6327436
8/14/2019	0210	0.571	256.3778896
8/14/2019	0211	0.483	260.877318
8/14/2019	0212	0.513666667	266.9415494
8/14/2019	0213	0.523833333	263.4973615
8/14/2019	0214	0.505166667	261.4478866
8/14/2019	0215	0.5405	260.1502559
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8/14/2019	0217	0.658333333	264.2189268
8/14/2019	0218	0.5725	270.5197314
8/14/2019	0219	0.772333333	265.2013293
8/14/2019	0220	0.563166667	267.316888
8/14/2019	0221	0.46	274.506408
8/14/2019	0222	0.536833333	278.3584967
8/14/2019	0223	0.447666667	282.5031516
8/14/2019	0224	0.495	285.0199496
8/14/2019	0225	0.471	286.0657792
8/14/2019	0226	0.469333333	296.9253063
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8/14/2019	0228	0.670833333	298.5382906
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8/14/2019	0230	0.583833333	291.1138258
8/14/2019	0231	0.491166667	287.6627034
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8/14/2019	0234	0.3415	286.9450022
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8/14/2019	0242	0.350833333	300.0769102
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8/14/2019	0244	0.252333333	311.1547831
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8/14/2019	0253	0.497166667	287.662155

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157.5872831	0.681666667	285.6448193	157.1826353
157.1651234	0.818666667	285.2578987	157.7855272
161.8194036	0.8075	279.6986098	167.8667363
175.4355175	0.656333333	275.7402279	176.9374962
176.3168243	0.69	275.0623531	178.6777423
166.5022465	0.665666667	257.1751435	161.857364
160.4681847	0.688166667	256.6677493	160.9668818
169.0786691	0.549	258.9048465	165.0671809
184.1825985	0.544333333	263.5414475	175.1565096
175.0492641	0.530169492	262.2573253	172.1268552
170.3137958	0.585666667	262.7924061	173.3658787
167.5543689	0.586666667	260.0004407	167.2470195
168.8460821	0.604333333	256.8569286	161.2962672
176.8345078	0.733833333	259.8564405	166.9537344
192.0134234	0.647833333	265.6116444	180.4676009
179.3707756	0.827166667	265.0345417	178.9313464
185.2771747	0.5995	266.1601288	181.9695781
180.149712	0.512	273.0400467	184.235783
170.7408981	0.6045	274.8646168	179.1965905
162.4337077	0.530666667	283.1905144	161.2133711
158.1621888	0.585666667	283.3043504	161.0152649
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144.1114902	0.585	295.6770444	145.1781071
145.0719554	0.598	296.0389814	144.8601312
142.8557534	0.838833333	295.7085648	145.1501293
152.4836725	0.723833333	291.7865979	149.0680797
149.8329376	0.715166667	290.6185068	150.4144003
154.2239658	0.5945	285.1305321	157.9865798
160.5896091	0.569	285.3029089	157.7147855
153.5962849	0.533833333	286.7780456	155.4835208
155.2414011	0.448666667	285.8830743	156.8172253
149.7969941	0.471	289.9104783	151.2731743
165.88722	0.329166667	278.0171886	171.5038219
169.1194301	0.441166667	282.7607911	161.9714056
168.4926538	0.312	284.9334793	158.3001902
153.7304497	0.3285	286.7196116	155.5687522
148.3725292	0.331	289.8159384	151.390339
145.4605682	0.277833333	294.9496115	145.8390931
141.7819686	0.415666667	295.8935173	144.9870643
140.3696455	0.369833333	300.7883376	141.3252015
137.3091027	0.3295	308.3161622	137.9374893
141.6151905	0.349833333	301.4138534	140.9439171
143.5872826	0.4995	297.602213	143.5679648
144.879886	0.642372881	292.9222754	147.8404244
146.1459225	0.600333333	295.3555495	145.4666039
148.2522558	0.627	291.306951	149.610464
149.6434236	0.568666667	291.6642339	149.2050819
151.5879829	0.5095	289.7565154	151.464287
151.2130094	0.6195	289.2919728	152.0505308
154.2247289	0.580666667	285.468958	157.4551967

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282.5183035	162.4063555	1.0405	289.249632	152.1046877	156.8845083
284.032646	159.7741013	1.0505	290.079106	151.065661	156.4024202
283.2619805	161.0888691	1.285	286.9031499	155.3019005	157.835355
278.4892693	170.4519769	1.2365	281.7283256	163.860176	165.9995732
272.8697652	184.7302374	1.012666667	277.5441759	172.5826686	177.42148
273.2453044	183.6454229	0.986166667	275.7959079	176.7971552	178.8592862
257.3605496	162.1883996	0.9455	258.5962777	164.4742389	163.7555622
256.6889826	161.0036973	0.831833333	260.9767469	169.2914092	162.9325433
257.4947064	162.4298397	0.781666667	255.1369739	158.4130742	163.747191
260.080731	167.4114543	0.807	260.1884049	167.6329964	173.5958897
261.0320476	169.4101846	0.729166667	260.9910117	169.3220163	171.47708
261.3972547	170.2027784	0.797666667	262.2229592	172.0483941	171.4827118
260.5874809	168.4644539	0.761166667	262.4757726	172.6287245	168.9736417
257.9660999	163.2910578	0.844333333	258.2752469	163.8668807	164.325072
259.3318477	165.9027606	1.025666667	257.9799296	163.3166293	168.251908
265.1770992	179.3067093	0.997833333	267.6378099	186.229801	184.5043836
262.4717465	172.6194257	1.100677966	262.2960467	172.2154201	175.7842419
264.854366	178.4607514	0.8685	263.8939216	176.0224609	180.4324913
270.2016336	193.0690121	0.722333333	273.1765549	183.8424751	185.3242455
273.9410411	181.6894009	0.871333333	279.7559394	167.747972	174.8437154
279.4722418	168.3389795	0.7565	281.1979655	164.8686129	164.2136678
280.4373906	166.3617184	0.885833333	285.4831592	157.4330965	160.7430672
285.2359184	157.8201316	0.862833333	290.4889668	150.5690744	155.1101432
290.0311255	151.1245146	0.895833333	296.5304085	144.439817	146.2134822
292.4585541	148.3322149	0.958	298.3505777	142.9949506	145.314813
295.2323447	145.5786834	1.230333333	299.7868865	141.9753176	143.8899709
288.1431514	153.5636828	1.134	291.8518257	148.9954291	151.027716
289.453606	151.8449059	1.044666667	295.240335	145.5713889	149.4159082
283.6752022	160.3776201	0.876833333	286.8229443	155.418205	157.0015927
282.0755944	163.2140699	0.9135	288.8538421	152.6168443	158.5338272
283.2553327	161.1004317	0.7235	291.9617138	148.8736319	154.7634673
284.1518497	159.5752209	0.7495	291.7908477	149.0633382	155.1742964
289.1956499	152.1739114	0.767333333	296.1197443	144.7901555	149.5085588
277.4552903	172.7882336	0.594333333	285.3248367	157.6803802	166.9649139
279.9976851	167.2508503	0.705	290.4668832	150.5955514	162.2343094
279.5228731	168.2328952	0.562166667	284.2846221	159.3550955	163.5952087
282.5557363	162.3388699	0.510833333	284.9480236	158.2769362	157.478752
284.7627076	158.5745026	0.536	290.1488897	150.9803338	152.3294261
288.174002	153.521846	0.530833333	296.9876631	144.0604068	147.2204785
294.8294228	145.9511523	0.632	301.4980324	140.8940432	143.4035571
298.5123494	142.8748825	0.601833333	307.8127475	138.0849943	140.663681
306.3843299	138.5636286	0.543833333	314.4141221	137.0071627	137.7043458
302.0071147	140.5996331	0.631	309.3445487	137.6701103	140.2072128
298.3667465	142.9828896	0.846333333	309.1440105	137.7186875	141.9642061
293.0478217	147.7095008	1.082833333	299.5891149	142.1095582	145.6348424
291.7003538	149.164544	0.973666667	299.5095275	142.1641293	145.7352999
288.5743615	152.9849872	1.0495	295.1402669	145.6629996	149.1276766
287.8165822	154.0106925	0.959166667	296.4911886	144.472882	149.33302
286.3150698	156.1658542	0.8015	293.45917	147.287097	151.6263052
285.4539234	157.478611	0.984833333	291.5287154	149.3579021	152.5250133
284.3440683	159.2570123	0.880508475	292.7577163	148.0134611	154.7375997

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8/14/2019	0255	0.534333333	281.7403135
8/14/2019	0256	0.495666667	277.1923975
8/14/2019	0257	0.4415	260.7947878
8/14/2019	0258	0.3475	259.3547988
8/14/2019	0259	0.380166667	263.8169069
8/14/2019	0300	0.390166667	263.8089281
8/14/2019	0301	0.430833333	269.3370063
8/14/2019	0302	0.38	273.5313224
8/14/2019	0303	0.482166667	278.8340662
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8/14/2019	0310	0.493728814	264.7553701
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8/14/2019	0314	0.409666667	281.503619
8/14/2019	0315	0.432166667	278.6297844
8/14/2019	0316	0.514833333	278.0747815
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8/14/2019	0321	0.666	275.2440577
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8/14/2019	0343	0.505	277.7983996
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174.3829874	0.558	275.8066869	176.7700317
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174.6422527	0.537333333	277.8224581	171.9449066
175.2113215	0.562833333	274.1643923	181.0758963
164.2842094	0.497833333	280.8312966	165.5814281
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178.2054686	0.694	276.5837948	174.8524536
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174.8674729	0.630666667	276.9478065	173.9793908
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173.7312206	0.5385	277.0251458	173.7959196
171.9085153	0.526166667	278.1625501	171.1773215
190.0853464	0.592166667	268.1467777	187.7730439
190.7837713	0.594166667	270.331668	192.6353836
186.8786118	0.543166667	273.532871	182.8285924
191.283021	0.437833333	269.7641826	192.9547334
177.8150966	0.549166667	274.9206211	179.0491163
180.203454	0.442666667	275.6991363	177.0413175
190.3629822	0.446333333	270.6922331	191.4482574
184.4030127	0.634	274.5755914	179.964291
180.0512492	0.617833333	266.1807302	182.0268067
182.7459641	0.572166667	266.4587789	182.8050514
186.3848686	0.499166667	272.3010525	186.413059
181.8793234	0.4705	275.30365	178.0515131
185.7804318	0.4395	272.8456877	184.8004985
171.9996973	0.570666667	276.8282073	174.2645044
192.2501428	0.5495	268.1912905	187.909936

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273.0089832	184.3256649	0.8645	282.0045009	163.3454385	173.2501913
261.7827545	171.0550753	0.679833333	265.3038461	179.6427025	171.78201
258.421891	164.1431199	0.593166667	260.979185	169.2966389	165.3610333
262.4022673	172.4592445	0.610833333	263.8123963	175.8208188	174.8541927
261.5226245	170.4781772	0.6885	260.8777267	169.0795413	172.2117503
265.6604875	180.5996773	0.6965	268.5824851	189.1265644	186.3404817
268.7195401	189.5586432	0.743	273.4300521	183.1192832	186.3012461
273.879629	181.8593034	0.887333333	280.2001698	166.839006	172.4684079
274.4361939	180.3385556	0.8915	281.9234154	163.4958369	172.9949745
272.6884655	185.2614152	0.743166667	278.147127	171.2118526	176.400095
267.1527832	184.796034	0.780166667	273.1846218	183.8193179	188.2007401
273.1777709	183.8389837	0.781833333	279.6527418	167.9619993	174.7434353
271.9819718	187.3788516	0.840166667	275.9269817	176.4683185	178.7500473
273.8345645	181.984314	0.787833333	279.4427185	168.4009603	176.8752975
265.0445007	178.9574818	0.814166667	266.030467	181.6107541	180.2586913
265.2651668	179.539941	0.8085	271.6491562	188.403197	185.6508174
274.9644849	178.9339002	0.789666667	278.7322577	169.9200655	173.8602812
272.5518234	185.6650083	0.785666667	279.4049973	168.480283	177.6081273
276.0764358	176.0959811	0.781333333	283.2819922	161.0540858	166.7539261
274.0447048	181.4037969	0.765333333	281.0969318	165.0637378	172.6978245
271.4328627	189.0783691	0.800666667	275.5801606	177.3431232	178.4640622
265.8543022	181.1269823	0.785166667	265.8690847	181.167412	184.2414665
272.0652386	187.125296	1.025666667	276.189813	175.8153658	179.5424136
272.536656	185.7099811	1.172166667	275.707557	177.0200247	177.4689888
271.098403	190.1373443	1.022333333	274.8248494	179.3015602	178.0070762
274.7489775	179.5024129	0.9735	279.9520429	167.3442544	174.9761474
275.7381567	176.9427243	1.0155	280.2945305	166.6484827	170.7355054
275.5007313	177.5456116	0.9915	282.3861248	162.6456585	172.2595334
274.3501433	180.570903	0.8055	280.5463835	166.1442924	171.0205056
272.2125802	186.6792681	0.8555	276.7955438	174.3426659	180.2633643
269.3370065	191.5436985	0.924166667	273.308523	183.4648292	181.7227302
269.7832106	193.01832	0.914576271	272.3072598	186.3944267	190.6496312
273.8842784	181.8464218	0.834	280.4170382	166.4024485	173.9440026
274.6112383	179.8690037	0.873333333	279.7608497	167.7378154	172.673164
267.4426327	185.6485788	0.862666667	270.0951244	193.4263917	189.2333402
268.1436817	187.7635345	0.8865	270.7628491	191.2183567	190.6002615
270.7514196	191.25551	0.817166667	273.1349755	183.9619854	186.2311749
268.8022723	189.820948	0.716	269.1612534	190.9721988	191.2577253
272.9516485	184.4919347	0.843333333	278.1110484	171.2927325	178.16222
273.1065665	184.0437853	0.672666667	279.7478921	167.7646225	177.2632949
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265.230219	179.4472646	0.877	266.6433701	183.3277914	181.2132779
265.1737232	179.297789	0.815666667	267.8462056	186.8568192	182.9264059
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154.8755602	0.9575	288.9707993	152.4643841
155.299567	0.906833333	286.6817366	155.6241328
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154.073125	1.138	285.9321402	156.7425203
153.1851514	0.989333333	288.61119	152.9361653
155.8162294	1.1325	285.3260411	157.6784916
149.3806927	1.102833333	290.4500581	150.615745
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154.7735729	0.8175	287.584381	154.3331742
151.5764617	0.760333333	291.7716493	149.0847666
157.3639294	0.77	286.0121742	156.621064
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264.6387249	177.9030754	0.7935	267.5342349	185.9206419	187.1936831
269.2732064	191.3356355	0.769833333	270.104646	193.394362	190.768804
261.7805056	171.0500558	0.693833333	263.2047197	174.343297	174.0718251
262.995863	173.8456889	0.736	262.675176	173.0916061	172.6894039
264.5842301	177.7630939	0.861833333	265.6316515	180.5216628	180.6378157
264.3306139	177.116617	1.006666667	267.9899002	187.293078	180.8972578
266.4199816	182.6958018	0.786	266.8274518	183.8539805	186.1905294
269.7771201	192.9979605	0.930166667	272.0315712	187.2276862	186.5908435
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266.3157596	182.4033815	0.822666667	264.6796375	178.0084191	181.7190282
267.820052	186.7777613	0.972	273.3918197	183.2277608	187.777844
269.0335036	190.5600509	0.963166667	270.3090553	192.7105794	190.9411298
267.2905242	185.1996071	0.950833333	271.3795466	189.2459575	189.5894028
274.5762618	179.9624976	0.995833333	278.0960151	171.3264763	174.3978808
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278.5880028	170.2350748	0.900166667	284.3359586	159.2703757	162.6603053
279.8078089	167.6408079	0.950333333	285.3965589	157.5681121	162.0321153
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281.6544685	163.9990284	1.327	288.504483	153.0778816	158.9495775
287.705344	154.1646961	1.274333333	291.919267	148.9205902	151.0975525
282.2257603	162.9381052	1.258833333	287.1056368	155.010401	157.9672717
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283.7655403	160.2240713	1.678333333	287.6249439	154.2765603	157.048791
283.0360462	161.4839906	1.502166667	288.4651934	153.1302616	155.848482
285.6567259	157.1642693	1.304666667	290.10316	151.0362131	152.4480802
289.2464146	152.108808	1.49	295.082277	145.7163446	148.5026518
289.8575228	151.3387298	1.196	296.3703121	144.5753106	149.617435
285.4742245	157.446999	1.419666667	291.7545467	149.103875	152.5629572
288.1323466	153.5783512	1.5155	292.5338094	148.2515214	150.473848
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285.4898284	157.4227233	1.3315	291.0649966	149.8895619	152.0562664
287.4745491	154.4870651	1.362333333	293.2942369	147.4552598	152.3205673
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282.3208696	162.7643798	1.4885	287.0312077	155.1171964	157.660771
282.7494975	161.9915469	1.602	287.4435727	154.5306258	156.8344545
284.9621877	158.2543066	1.339	288.6180828	152.9270384	154.3256654
283.8300338	160.1148739	1.689	289.1458325	152.2379702	156.4618913
287.5794577	154.3400537	1.552666667	292.8871793	147.8771923	150.5534209
288.541539	153.0285781	1.455833333	294.1799394	146.5708904	150.3443008
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284.0369021	159.76698	1.251166667	289.391837	151.9232781	155.1992513
286.8164619	155.4276257	1.113166667	293.532135	147.2132144	150.8255171
284.6420557	158.7697323	1.241666667	290.1912195	150.9287316	155.9208643
285.8346929	156.8910706	1.745333333	289.2219922	152.1401067	154.076027
285.8738386	156.831308	1.863166667	290.3040535	150.791755	153.4524769
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8/14/2019	0500	0.459666667	292.725357
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8/14/2019	0503	0.5505	294.551234
8/14/2019	0504	0.531833333	293.7773188
8/14/2019	0505	0.6445	292.7679964
8/14/2019	0506	0.646833333	288.3484246
8/14/2019	0507	0.627333333	285.9665944
8/14/2019	0508	0.664666667	289.5743407
8/14/2019	0509	0.659166667	286.5492006
8/14/2019	0510	0.669166667	290.1125565
8/14/2019	0511	0.678	285.487123
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8/14/2019	0513	0.679166667	287.7640164
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8/14/2019	0518	0.534166667	287.2024121
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8/14/2019	0522	0.683833333	282.7492005
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8/14/2019	0524	0.4625	281.564247
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8/14/2019	0526	0.5445	276.5957766

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151.5620778	0.990166667	289.5855853	151.6783121
152.9877454	1.033	288.7884551	152.7024903
156.6793903	1.0985	286.430612	155.9940535
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157.5234986	1.082666667	284.6219199	158.80243
162.2697396	0.674	280.41997	166.3965786
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166.9049045	0.743333333	282.9082148	161.7095218
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156.2089322	0.651	288.4276858	153.1803666
151.4298081	0.578833333	291.3326601	149.5810259
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148.0476789	0.606	291.1481546	149.7932193
147.0617474	0.627	294.081655	146.6667771
148.2550313	0.622	292.8465593	147.9198394
146.2136579	0.646	292.7489881	148.0226844
146.9672333	0.692833333	293.0542448	147.7028278
148.0026037	0.810508475	291.5283909	149.3582695
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157.4269309	0.741166667	285.5185178	157.3781399
152.2408078	0.709333333	287.3540498	154.6569106
154.0833564	0.726	286.9385681	155.2506934
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154.5594413	0.704333333	289.19991	152.1684413
148.9522673	0.821833333	291.6267286	149.2472607
156.8093864	0.683	284.3706769	159.2132042
154.8721521	0.657166667	291.242566	149.684371
152.0198383	0.784333333	288.1886649	153.5019851
159.7860003	0.747166667	283.0667761	161.4299876
158.7438053	0.6905	284.4218579	159.1291044
161.9920768	0.798166667	283.4659849	160.7358992
164.8556294	0.599833333	281.055833	165.1433906
164.1693363	0.539166667	282.9458314	161.6430064
174.3586953	0.547333333	276.601875	174.8087155
174.8234639	0.591	278.5880103	170.2350583

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288.5822284	152.9745504	1.524166667	291.7229348	149.1392423	150.0365292
282.3710612	162.6730302	1.4825	287.2835713	154.7567417	158.6700692
284.7988517	158.5162472	1.699833333	288.7977177	152.6903399	155.405554
287.777999	154.0640083	1.497833333	293.7524087	146.9920641	151.0741156
284.4470207	159.0878363	1.548166667	289.0181255	152.4029587	154.2952577
285.0500254	158.1143304	1.549333333	289.4911094	151.7974473	155.6463054
288.2927782	153.3613997	1.433333333	290.1659769	150.9594894	151.3667523
281.4862716	164.3171412	1.422333333	284.8684632	158.4043484	159.9290058
281.5553501	164.1861718	1.443833333	286.948565	155.236257	158.9370894
276.1894992	175.8161402	1.039166667	277.7174849	172.1844508	169.1667273
274.1573294	181.0951912	1.330833333	280.5346134	166.1677159	172.2608899
275.9864405	176.3198557	1.339666667	280.5375707	166.1618294	172.9506041
278.0267577	171.4822562	1.285	279.1066617	169.1128759	167.6318324
277.9994188	171.5438964	1.4345	282.704833	162.0713133	164.2368528
279.215176	168.8817024	1.6195	285.2093129	157.8620691	163.5602359
282.7436216	162.0020306	1.236833333	288.4306021	153.1764672	156.3140013
280.0834284	167.0759499	0.973	285.6575133	157.163055	159.1071748
277.6128564	172.4244504	1.195666667	283.3286674	160.9730919	167.737947
280.2699213	166.6980855	1.156333333	285.7004833	157.0968682	163.102345
288.1508082	153.553293	1.156666667	291.3191794	149.5964567	149.7655728
283.4569947	160.7513787	0.989166667	291.3206256	149.5948008	154.9338695
287.5993638	154.3122487	0.950166667	292.0684594	148.7560318	151.0197786
287.9787931	153.787708	1.055333333	294.0458444	146.7018526	150.5589743
288.5425731	153.0272035	0.930166667	291.35969	149.5501205	150.1045555
291.7237224	149.1383605	0.983833333	297.1870992	143.8984125	146.6913244
290.9958871	149.9699637	0.941833333	293.9308209	146.8150167	148.2399628
291.639853	149.2324908	1.072666667	296.72798	144.2745082	146.9358353
285.9244654	156.7541934	1.101166667	290.5569512	150.4877637	150.4780045
289.1080991	152.2866032	1.111833333	293.0183854	147.7401134	149.3468974
286.2608929	156.2467597	1.142166667	290.1103659	151.0273987	152.9068781
285.6799287	157.1285106	1.139	289.512829	151.7700054	155.4085268
286.2186913	156.3099366	1.115166667	289.8331161	151.3690064	152.962153
281.3726824	164.5334763	1.024666667	284.5179581	158.9717761	158.3872492
285.2007564	157.8755684	1.232033898	290.3124527	150.781592	152.6809821
282.9548863	161.6270136	1.205	286.6119382	155.7264736	158.0396395
284.8317416	158.4633285	1.1445	288.9115546	152.5414953	154.4756355
286.0779916	156.5215519	1.189333333	289.6046833	151.6543021	154.377476
285.938273	156.7331959	1.2785	288.4160797	153.1958907	154.4380181
284.2434102	159.4232648	1.135666667	288.4499263	153.1506444	154.825448
288.6545897	152.8787534	1.294666667	292.2339239	148.5751269	149.9133521
281.4413716	164.4025098	1.114	285.8028756	156.9397328	159.3412083
290.3906741	150.6871653	1.076833333	292.8302045	147.9370383	150.7951817
284.7139558	158.6532466	1.1215	286.7302179	155.5532629	154.9320832
280.2317647	166.775114	1.163166667	287.2019007	154.8728808	160.7159957
280.4024748	166.4316185	1.023833333	282.0048984	163.3447028	161.9123077
280.4981396	166.240388	1.238333333	284.7248528	158.635629	161.9009983
278.4169394	170.6115476	0.896666667	281.49497	164.3006249	166.2277981
278.2524296	170.9766118	0.868833333	282.4089945	162.6041418	164.8482741
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278.3303397	170.8033512	0.954166667	282.6457353	162.1771282	169.5097504

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8/14/2019	0531	0.5285	279.1464844
8/14/2019	0532	0.5765	279.5484855
8/14/2019	0533	0.601	267.8615822
8/14/2019	0534	0.601833333	274.4560186
8/14/2019	0535	0.468333333	277.0080512
8/14/2019	0536	0.697	282.8953596
8/14/2019	0537	0.616833333	290.1390545
8/14/2019	0538	0.670333333	283.8854984
8/14/2019	0539	0.645333333	288.6266934
8/14/2019	0540	0.704	284.5734479
8/14/2019	0541	0.632666667	284.1704004
8/14/2019	0542	0.720666667	281.4589166
8/14/2019	0543	0.694166667	283.6947803
8/14/2019	0544	0.659666667	276.2172834
8/14/2019	0545	0.651166667	284.4669815
8/14/2019	0546	0.5055	281.0359979
8/14/2019	0547	0.539166667	279.5651693
8/14/2019	0548	0.5155	266.5276849
8/14/2019	0549	0.6255	268.4427393
8/14/2019	0550	0.548833333	259.12621
8/14/2019	0551	0.517	266.5721895
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8/14/2019	0553	0.439666667	261.000902
8/14/2019	0554	0.438166667	244.8845307
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8/14/2019	0558	0.4665	250.8437237
8/14/2019	0559	0.414576271	257.4810367
8/14/2019	0600	0.765166667	265.9919659
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8/14/2019	0602	0.695333333	267.2905796
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188.2659608	0.723333333	271.026476	190.3674829
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268.769491	189.7168799	0.697166667	273.0736519	184.1387065	187.6372769
263.536013	175.1432765	0.756833333	266.582411	183.154622	174.94417
274.9759421	178.9038475	0.927166667	277.0196341	173.8089717	172.0476484
278.7589206	169.862087	1.009833333	280.3131674	166.6109579	166.538683
269.080213	190.710429	0.901333333	270.9973133	190.4610369	189.4546373
271.427769	189.0943601	0.8885	273.4436934	183.0806292	182.9588254
277.9439904	171.6691252	0.852166667	281.00239	165.2472097	169.4889375
279.5633552	168.1482663	1.120833333	279.3800894	168.5327421	164.5580515
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282.4813879	162.4730315	1.061666667	283.4174615	160.8195297	160.167649
286.8372656	155.3974027	1.161166667	288.6474345	152.8882099	153.392236
283.1002219	161.3713056	1.1575	285.0283382	158.1488329	158.6408537
281.8254377	163.6783747	1.1885	284.8296926	158.4666228	159.6627521
280.7236617	165.7931374	1.253333333	284.565483	158.8942519	162.5952723
282.3670196	162.6803776	1.164833333	284.6628221	158.7360454	160.3010306
273.2040408	183.7636117	1.027	277.5192137	172.640307	177.9831742
285.6979336	157.1007914	1.057966102	287.183283	154.8994244	156.7473919
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274.8073519	179.3478128	0.900333333	276.9484917	173.9777622	173.0488332
267.5723592	186.0342481	0.851333333	274.0817118	181.3021998	184.155387
265.8612462	181.1459703	0.9765	270.4393188	192.2786169	186.494443
259.7052813	166.6481035	0.893666667	265.0383536	178.9413483	168.6794766
264.2164455	176.8282581	0.927333333	267.1313331	184.7334405	180.5336098
258.5307891	164.3495565	0.837333333	262.2137949	172.0274937	163.369091
257.5463941	162.5232911	0.819333333	262.219046	172.0394685	167.0965747
249.2152453	150.2174846	0.832333333	253.1633356	155.3982757	149.4288342
244.304916	145.1620883	0.929333333	248.9031257	149.8525782	145.6913912
247.1497361	147.9159458	0.9425	247.6301875	148.4278112	147.530877
245.1714769	145.9519942	0.845166667	247.1280545	147.8931748	146.3308421
246.0656719	146.8115549	0.830666667	249.4612829	150.5095427	149.1164358
252.683748	154.710405	0.802	254.5710755	157.5175828	157.0194877
259.7739106	166.7865834	1.09	259.8980423	167.0382507	172.9269038
256.7223322	161.0615993	0.939333333	256.3335785	160.3925818	163.6468961
261.813262	171.1232199	1.019833333	262.9147306	173.6537748	177.6488347
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265.078557	179.0469552	1.167166667	267.461485	185.7044671	187.9618065
269.976782	193.6687935	1.405	273.5004912	182.919974	186.8662092
270.3140349	192.6940129	1.096166667	270.3579998	192.5479319	185.675928
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263.187586	174.3022808	1.018166667	264.7446974	178.1763825	182.1963031
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8/14/2019	0619	0.793833333	266.7538425
8/14/2019	0620	0.668166667	259.4210084
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8/14/2019	0622	0.636666667	256.9392668
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8/14/2019	0624	0.748833333	255.5155658
8/14/2019	0625	0.528166667	265.5703104
8/14/2019	0626	0.424166667	261.6484799
8/14/2019	0627	0.675166667	268.1525688
8/14/2019	0628	0.713333333	261.7447657
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169.6349444	0.658	259.5493038	166.3351127
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186.3431792	0.849	272.5890909	185.554654
169.9533723	0.81	277.8262558	171.9362639
162.1112594	0.954333333	283.1954479	161.2047623
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150.045593	1.119833333	292.0911108	148.7311673
157.3964217	0.951333333	285.2323202	157.8258
150.5892968	0.919152542	290.7591355	150.2477137
150.5756657	0.736166667	291.4219186	149.4791443
149.3554331	0.785833333	291.6562796	149.21402
148.8295453	0.6865	293.4809498	147.2650105
143.0373934	0.7545	297.2620684	143.8380625
154.2912677	0.670333333	285.6023007	157.2483111
170.0515413	0.4725	284.6553054	158.7482348
153.9410097	0.638166667	288.3052652	153.3445897
165.1564092	0.596666667	284.0398786	159.7620006
181.7596063	0.682833333	276.6402423	174.7160312
170.1204007	0.737	275.578784	177.3466258
159.5013762	0.889833333	283.1541528	161.2768874
190.9730037	0.830166667	271.9932893	187.344325
168.3405396	0.820666667	279.2221287	168.8669329
160.1795184	0.914166667	286.4869269	155.9106849
162.7223699	0.903	280.0087504	167.2282375
181.4134302	0.719833333	273.149062	183.9214688
178.0401176	0.764	275.5347786	177.4587167
191.7835066	0.904333333	273.3629912	183.3096955
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264.8443728	178.4347744	1.143050847	266.4024376	182.6464699	182.0222954
254.0987422	156.7895185	1.008666667	258.7615932	164.7907819	161.8615514
261.2666677	169.9177273	0.8415	265.1575469	179.2550678	174.6683641
252.7649996	154.8257526	0.957833333	256.7157854	161.050225	158.9147577
255.4559627	158.929212	1.040166667	260.4146992	168.1024591	162.8715409
253.6690141	156.1421282	1.113	258.0191159	163.389181	159.2196003
255.8953736	159.6538668	0.9025	258.4725845	164.2390806	168.05144
251.4292466	152.9897754	0.7535	255.5502515	159.0833657	160.5952117
263.1910702	174.3106187	0.974333333	264.0587593	176.432675	179.8108548
255.371141	158.7911582	1.016166667	261.1817329	169.7333123	165.8933706
256.307972	160.3489685	0.885166667	263.3357796	174.6581965	167.7443055
255.9028095	159.6662675	0.902	260.6537205	168.6040533	164.7885771
259.9106313	167.0638602	1.037833333	265.7195809	180.7599059	171.6538954
256.7422969	161.0963084	1.046666667	262.7899933	173.3602177	166.586699
259.0037581	165.2591706	1.000166667	261.7933198	171.0786634	172.6898559
253.3364269	155.6507296	0.966833333	257.115899	161.7522265	162.184985
267.3804728	185.4646835	0.843666667	268.1108777	187.6628671	188.0784487
266.0979708	181.79727	0.826166667	269.4555316	191.9320658	186.9688996
253.5884991	156.0224001	0.706	258.081975	163.5058565	160.2696473
243.9567492	144.8564232	0.8155	247.9497882	148.7760851	146.8498717
257.4859509	162.4140334	0.9945	260.8154508	168.9468229	167.239467
286.1584739	156.4003193	0.9285	284.0426465	159.7573708	155.6510062
272.9753542	184.4231298	1.043666667	275.1731819	178.3891734	180.3605485
270.2905698	192.7721166	1.156333333	271.7027315	188.2371169	188.2267667
273.8571741	181.9215583	1.087166667	275.3139192	178.0250291	175.4590559
280.1369433	166.9671638	1.243	282.0023634	163.3493955	163.4081453
282.6849342	162.1069076	1.418666667	281.8273948	163.6747199	161.0442608
284.0857859	159.6852958	1.469333333	283.8451064	160.0894042	157.0978435
287.6050658	154.3042894	1.398666667	286.1134805	156.4680328	152.3872706
281.5062475	164.279222	1.191833333	282.2490018	162.895577	160.5992552
285.1937302	157.8866578	1.186833333	284.5883017	158.8570949	154.3951908
284.4802464	159.0334245	0.937	283.6246649	160.4638216	154.888014
285.6680037	157.1468833	1.006166667	285.4249533	157.5237782	153.3100287
285.7983201	156.9467065	0.8025	284.466623	159.0557239	153.0242465
291.5209013	149.3667489	0.926949153	288.087719	153.6390245	147.4703073
282.9948892	161.5564469	0.861166667	283.1888895	161.216207	158.5780582
277.5221054	172.6336263	0.536833333	277.0385665	173.7641534	168.799389
285.2518869	157.7949879	0.948166667	282.8457255	161.8202937	156.7252203
277.6239477	172.3989498	0.823166667	281.2625729	164.7443475	165.5154268
275.7190333	176.9910195	0.899333333	278.2402273	171.0038085	176.1176164
273.7471173	182.2277085	0.934666667	278.3759081	170.7023226	175.0992644
278.8865992	169.5855065	1.191666667	281.1994861	164.8656837	163.8073635
270.8966698	190.7849881	1.211666667	274.4816125	180.2163243	187.3296603
273.3335474	183.3935029	0.991333333	274.5618594	180.0010434	175.1505047
282.9504428	161.6348609	1.199	282.7740506	161.9477728	159.9182093
275.8551552	176.6482499	1.2895	277.9398532	171.6784862	169.5693359
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276.5688792	174.8885656	1.089	279.228425	168.8535623	174.8102405
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8/14/2019	0710	0.777833333	274.9722962
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8/14/2019	0724	0.807	279.3596882
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284.7452765	158.6026352	1.007833333	286.279794	156.2185081	156.6084285
285.8634929	156.8470908	1.307833333	286.3108497	156.1721483	153.825849
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274.9124912	179.0704989	1.074666667	277.9531162	171.6484838	171.3652551
288.3082185	153.3406156	1.128833333	289.2120164	152.152903	151.1202325
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287.8262435	153.9973588	1.320333333	287.3878177	154.6092076	154.3083231
285.6611377	157.1574668	1.550833333	286.2449928	156.2705465	155.6214259
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276.3861653	175.3331122	1.259833333	279.7813711	167.6953951	169.7406474
274.9307318	179.0225365	1.087	275.6751005	177.1021448	172.8584528
282.1893706	163.0047913	1.187333333	282.5343534	162.3774046	161.518552
284.2241442	159.4551812	1.231	284.6685767	158.7267165	159.0456991
275.9237923	176.4762945	1.2965	279.4351248	168.4169169	174.6823019
280.1631095	166.9140775	1.018644068	284.0915237	159.675721	162.6544
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284.7493	158.5961393	1.643666667	286.4052001	156.0317517	156.6925776
286.7748568	155.4881652	1.684	288.6595882	152.8721495	152.0072445
281.7000027	163.9133634	1.684166667	284.9007307	158.352612	160.1688722
294.8211697	145.9588771	1.874166667	296.5968944	144.3839541	144.7954054
293.2056029	147.5462936	2.025333333	294.5308046	146.2331088	146.4984702
293.7204115	147.0240125	1.483	295.2602905	145.5531869	146.3544169
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294.6795324	146.0920473	1.4365	297.0293591	144.0263642	144.6310914
291.8332395	149.0161034	1.263	297.8781106	143.3533324	148.0239609
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293.8303798	146.9144617	2.055833333	294.8367466	145.9443006	145.84712
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296.461927	144.4976055	1.667666667	303.1147181	140.00136	143.2270149
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302.2644566	140.4554895	1.7925	305.5293389	138.893115	139.4591458
293.1402638	147.6137001	1.721666667	299.3817495	142.2524057	144.5853257
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286.1171258	156.462541	1.718	292.1076953	148.7129826	154.1484181
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281.3392239	164.5974315	2.308833333	285.8762586	156.8276172	162.0967197
284.8793373	158.3869039	1.903833333	290.0602264	151.0888009	154.5011597
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290.7892213	150.2122186	1.808666667	295.4550121	145.3767386	148.2469439
295.8218635	145.0500157	2.166166667	300.3480431	141.6049664	143.6798176
307.7920584	138.0912913	2.036333333	309.8714094	137.5506727	137.784393
295.6197335	145.229117	1.687666667	302.3636527	140.400762	144.0537348
302.6279216	140.2572203	1.857666667	307.2304548	138.2693349	139.0564399
283.6609394	160.4019261	1.87	288.4968223	153.0880861	157.1325903
296.1136256	144.7954445	1.741333333	300.5539497	141.4729548	143.1945549
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284.4515475	159.0804177	2.076166667	289.3750068	151.9446769	156.7090793
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288.5754657	152.983522	1.672	290.9708746	149.9991381	151.2589114
290.0631582	151.085206	1.652833333	295.4340499	145.3956324	149.094086
293.318788	147.4301262	1.436833333	297.1478261	143.9301458	144.566356
295.1021264	145.6980638	1.439833333	299.6392813	142.0753227	144.1388063
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284.3156924	159.3037947	1.595666667	289.9305326	151.248397	153.9308985
282.2734034	162.8509785	1.762666667	287.5864404	154.330297	157.4500226
283.3582084	160.9219278	1.841	286.4166643	156.0147387	159.2426065
282.94769	161.6397232	2.203	286.7239442	155.562424	158.3746339
292.4203362	148.3733261	1.609	293.5385988	147.2066844	146.9005112
282.7638064	161.9660301	2.016666667	285.6189367	157.2225977	157.7066767
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8/14/2019	0941	1.308833333	274.3814325

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295.9593686	144.9294587	1.762666667	293.2773705	147.472547	145.7462678
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299.077972	142.4655614	1.8485	295.4646417	145.3680673	143.8504028
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301.2449311	141.0450249	2.218333333	299.5100368	142.1637791	142.4283928
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285.5449649	157.3370984	2.233166667	283.5079264	160.6637756	158.6633101
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8/14/2019	1004	1.278333333	303.8556201
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295.199039	145.6091269	2.223166667	294.1310818	146.6184865	145.2906003
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287.6719695	154.2110749	1.572666667	287.3055141	154.7256213	152.8553093
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300.3408546	141.6096126	1.396166667	297.9059995	143.331857	142.6935987
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278.0331203	171.4679227	1.710333333	279.488014	168.3059047	169.8743998
264.0509865	176.413256	2.142333333	268.5383715	188.9881409	178.6294581
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281.3214867	164.6313787	1.397666667	282.1751796	163.0308297	162.6987408
284.3727748	159.2097527	1.501333333	288.8015918	152.6852597	156.0574124
279.9628876	167.3220423	1.765166667	279.1255427	169.0725637	166.0657163
282.2015738	162.9824149	1.727	279.5042196	168.2719477	162.6413302
273.0616008	184.1735	1.827627119	274.6827333	179.6784044	180.6050755
288.1190975	153.5963493	1.865166667	288.0378116	153.7070433	151.3981073
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292.9069304	147.8564913	2.0995	294.020195	146.727021	146.4097972
283.419715	160.8156414	1.712333333	286.5153822	155.8686509	157.3885075
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288.3842071	153.2385714	1.783666667	290.5011629	150.5544656	152.8126835
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8/14/2019	1042	1.408666667	266.6026973
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282.1955244	162.9935058	2.629166667	283.6942662	160.3451591	162.0619762
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284.9534454	158.268272	2.7455	284.0892745	159.6794741	156.7530066
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253.8157259	156.3615609	2.043666667	256.1244161	160.0379623	159.2209224
263.6309796	175.3750336	2.479666667	264.0539687	176.4207055	177.7997851
259.9210309	167.0850278	2.2875	263.5931405	175.2825596	170.2241719
282.4567081	162.5176757	2.604666667	283.5783352	160.5430375	157.81947
277.8252848	171.9384736	2.2755	281.2292024	164.8084826	171.4577154
279.6569904	167.9531662	1.5755	283.5852479	160.5312063	166.0097775
267.2139631	184.9749381	1.5415	268.9642912	190.3378938	189.2932337
278.1778427	171.1431088	1.629	276.3621911	175.3917423	168.7123195
276.5535841	174.9256242	1.388833333	280.3241339	166.5888933	173.3750003
275.2514852	178.1862548	2.5765	278.1284531	171.2536973	172.1368917
253.2848374	155.5752519	2.586666667	257.2084991	161.9166944	158.0868737
246.9322868	147.6888436	2.0995	253.4237051	155.7788761	150.997087
285.671735	157.1411333	2.183333333	288.9828927	152.4486733	155.1560025
278.8736484	169.6134814	1.8955	281.2318027	164.8034812	167.8101081
296.7633746	144.2451144	1.563166667	297.4736018	143.6693761	144.1051942
282.0480875	163.2648431	2.036333333	284.7184363	158.6460015	161.7572915
258.682129	164.6383025	2.330666667	259.9054499	167.0533177	169.7983039
232.8089557	138.2823454	2.992166667	235.6341478	139.3940168	138.884148
236.214387	139.6667477	3.449166667	239.3526697	141.413769	140.56927
243.7826411	144.7060526	3.002	245.2974742	146.0703513	145.9286268
237.2060647	140.1687214	3.522333333	240.3828779	142.0904295	141.9451591
240.23537	141.9903274	3.354166667	243.8697955	144.7811184	144.019225
243.2365347	144.2450392	3.000166667	245.9050505	146.6537743	145.7697536
242.6542223	143.7710272	2.741333333	246.0134853	146.7601276	145.502566
231.7735502	137.962973	3.144833333	235.8539126	139.495505	138.7926158
257.7552439	162.9033422	2.190666667	259.6528634	166.5426506	166.5297053
253.9512121	156.5656652	2.234166667	258.388734	164.0804852	158.857976
237.4918955	140.3218946	2.451	239.4191968	141.4558912	142.2478694
233.1193461	138.3871897	3.944833333	237.9652068	140.5839794	139.3573039
236.7986898	139.9570025	2.5255	240.6658411	142.2854929	141.3778562
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171.559123	1.784666667	263.5296104	175.1276911
176.5312931	1.990166667	274.8924002	179.1233778
165.837881	1.7805	259.7783266	166.7955101
180.715468	1.733166667	262.1761877	171.9418245
165.1240225	1.972166667	256.9222274	161.410683
178.538493	1.947666667	263.6892929	175.517885
180.8060444	2.468333333	273.3814995	183.2570788
169.8037831	2.353	279.4539494	168.3773717
164.0804447	1.871666667	281.2941402	164.6837753
175.7195561	1.4085	263.6396791	175.3963186
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173.6485788	1.6135	277.8267554	171.935127
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265.5779511	180.3766799	2.427833333	265.8273988	181.0534791	182.5898787
260.4981369	168.2768838	2.875666667	265.0388961	178.942772	172.755819
274.3548924	180.5580536	3.539833333	277.1006748	173.6174212	176.4374958
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264.1267124	176.6027659	3.0925	265.6738582	180.6358895	180.101041
264.8095925	178.3444659	2.827166667	269.803289	193.0854857	184.3267844
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261.2831237	169.953547	2.996833333	264.1629643	176.6937426	174.4218871
255.2430573	158.583804	3.011666667	257.3451324	162.1607564	161.7649007
252.8589621	154.9597486	2.8405	253.2401094	155.5099742	158.4313739
232.0734515	138.0506895	2.609833333	235.7952329	139.4681912	139.1049028
242.5490049	143.6872914	2.095166667	244.4483289	145.2899318	145.2984342
255.9730366	159.7836118	2.512	257.9815009	163.3195357	164.9067621
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272.0151796	187.2776008	2.508166667	270.7331514	191.3149393	183.5618027
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260.0099733	167.2665081	2.394166667	260.1310516	167.5148438	171.8596611
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271.5600501	188.680436	3.388	273.2512834	183.6283182	184.0929694
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279.0830184	169.163409	2.607666667	281.7474063	163.8243865	165.4380039
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276.4397757	175.2022581	2.245166667	280.6095118	166.0188945	171.7012146
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279.1706865	168.9763308	2.703833333	281.4951779	164.3002302	167.6756087
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262.8605241	173.5259818	2.408	266.6763454	183.4216892	176.0362087
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282.2181104	162.9521142	2.093666667	282.0059258	163.342801	160.2035988
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260.3494068	167.966467	2.471666667	263.820443	175.8406851	169.6790502
268.3396874	188.3685751	2.127166667	272.021249	187.2591139	189.2731094
269.6285815	192.5034129	3.168833333	272.3888239	186.1501461	189.8813583
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259.4841071	166.2049993	2.694333333	260.9873052	169.3140615	170.524971
269.0607773	190.6478125	3.248833333	272.9966135	184.3614959	189.2598159
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279.9484768	167.3515611	2.210666667	281.691047	163.9301967	164.585739
281.4153974	164.4519814	2.6985	284.891195	158.3678923	162.0871197
273.7824215	182.1293158	2.940833333	276.5247455	174.9955742	180.1719387
277.8907893	171.7896452	2.7435	280.4233668	166.3897791	171.4353469
290.0567244	151.0930957	3.322666667	290.5212556	150.530419	150.9151387
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281.138874	164.9826172	2.5585	282.1044575	163.1608676	162.5489723
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242.4841286	143.6359504	2.594	245.3242812	146.0956487	145.9356416
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284.9380093	158.2929455	2.703833333	287.4896905	154.4657977	158.2811854
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303.1665225	139.974781	3.1365	302.7464522	140.1939022	139.7942745
285.9966257	156.6446212	2.5195	288.0073601	153.7486326	155.3671746
270.2846728	192.7917602	1.783333333	274.1368099	181.1512869	186.7748495
274.956283	178.9554248	2.070666667	279.1076681	169.1107261	178.0162499
279.7826182	167.6928186	2.273666667	281.1198398	165.0194105	168.2073891
289.965971	151.2046775	3.070166667	290.0046451	151.157061	150.5924832
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256.8813453	161.3390064	2.6495	255.2713224	158.6294475	162.8640853
257.5110271	162.4593217	2.945333333	256.6187755	160.8821167	167.0175227
265.6625667	180.605307	2.8415	271.1102985	190.0993658	184.2337501
269.8589692	193.2721142	3.122	272.091682	187.0449993	185.3939894
276.2460762	175.6766979	3.157	278.0693739	171.386337	171.061958
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247.2190233	147.9889037	3.757166667	249.6689798	150.7591416	149.3274911
254.0296411	156.6844596	3.607333333	258.4381245	164.1738231	159.1701484
258.7569561	164.7818675	3.422833333	259.816051	166.8718468	166.4491729
244.7718598	145.5825231	3.156	246.2870204	147.0314416	146.8304823
256.4123585	160.5271107	2.361	258.4202566	164.1400301	163.3969587
280.4993676	166.2379393	3.875333333	282.9609549	161.6162994	163.9682773
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8/14/2019	1449	1.928833333	269.1185406
8/14/2019	1450	2.4125	281.8422555
8/14/2019	1451	2.267	264.1702539
8/14/2019	1452	2.382833333	253.9017642
8/14/2019	1453	1.892166667	255.1924055
8/14/2019	1454	1.9795	271.7758787
8/14/2019	1455	2.2775	267.6758166
8/14/2019	1456	1.781666667	264.0512732
8/14/2019	1457	2.477666667	257.9866449
8/14/2019	1458	2.490338983	270.3244733
8/14/2019	1459	2.123333333	253.9963632
8/14/2019	1500	2.626833333	261.4280788
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8/14/2019	1504	2.472833333	260.5731296
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8/14/2019	1507	2.18	266.7574171
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8/14/2019	1510	1.994666667	284.3853188
8/14/2019	1511	2.2605	277.1759969
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154.9159209	2.5075	286.1196083	156.4588016
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261.2875123	169.9631046	3.409322034	265.9913098	181.5028517	176.2361379
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251.1798075	152.6608827	2.812833333	254.7005681	157.7202445	156.0337617
267.9473518	187.1635658	3.208166667	270.2258221	192.9881275	189.8939024
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255.4627662	158.9403106	3.708166667	257.7254861	162.8489501	161.9582903
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253.3883018	155.726826	3.3375	256.2754565	160.2936682	157.1581048
258.1207118	163.5779386	3.925166667	261.9101568	171.3403371	168.196707
266.1454489	181.9288353	4.063666667	267.0683554	184.5500601	183.5156989
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268.8627244	190.013323	3.472833333	270.3194459	192.6760158	190.8813717
255.3710903	158.7910759	3.622833333	256.0971881	159.9920713	162.4913127
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280.6451327	165.9483093	3.147333333	283.9151655	159.9712707	161.6519838
276.9906203	173.8777371	3.6695	277.7934344	172.0110132	172.903548
276.8619551	174.1838811	2.843833333	278.6306109	170.1417977	171.7613321
281.4255213	164.4326914	3.289	283.5247571	160.6348755	162.8283552
284.9557629	158.2645693	3.7575	284.6294297	158.7902313	156.5479114
287.0138683	155.1421348	4.15	289.1991175	152.1694587	153.4695252
281.3735531	164.5318135	3.621666667	282.5436182	162.3607034	162.391167
293.4043677	147.3427944	3.489	295.6621517	145.191345	146.5145611
275.892957	176.553473	3.480833333	278.679008	170.0360854	172.48545
287.5646691	154.3607291	3.405	287.3250267	154.6979772	154.2301148
288.8246908	152.6549911	2.934833333	290.6074581	150.4275503	151.2626005
285.6054691	157.2434121	3.040833333	287.0492065	155.0913332	156.4111518
278.808797	169.753836	2.932666667	281.1366127	164.9869865	165.0530749
290.4339401	150.6351072	2.553	294.979338	145.8115028	149.670652
292.8790577	147.8857113	2.567	296.4650312	144.4949805	146.6855599
299.7668894	141.9888025	3.365423729	298.8800599	142.6069361	141.4238846
286.9697545	155.2056818	3.013666667	288.1596345	153.5413215	153.7150642
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290.2274908	150.8846085	3.254166667	293.3440572	147.4042946	148.68483
300.7133134	141.3722042	3.8395	301.4242958	140.9377118	141.4941847
301.2207843	141.0595899	3.040333333	302.7747719	140.1788713	141.5389808
288.2358476	153.438179	3.121	291.3634983	149.5457698	152.7054323
293.6580194	147.0864815	3.040333333	295.2218679	145.5882531	147.6924288
289.7374632	151.488046	3.369666667	289.8322264	151.3701108	151.0187358
294.8504356	145.9315021	3.852333333	295.7197198	145.1402411	145.3037552
297.9954253	143.2632682	3.174333333	299.0048813	142.5175416	143.0644768
286.6485451	155.6727537	3.553166667	287.6439044	154.2501378	154.7320289
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8/14/2019	1543	2.159	291.9403466
8/14/2019	1544	1.929833333	304.2957445
8/14/2019	1545	2.202333333	312.4442831
8/14/2019	1546	2.109833333	290.8775421
8/14/2019	1547	1.977	280.3635336
8/14/2019	1548	1.660666667	274.5399233
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8/14/2019	1551	2.285333333	284.0168746
8/14/2019	1552	2.306333333	294.7496412
8/14/2019	1553	2.189166667	284.9582889
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8/14/2019	1555	1.677833333	280.2026845
8/14/2019	1556	1.635833333	272.8166187
8/14/2019	1557	1.844833333	277.1277343
8/14/2019	1558	1.831833333	294.4940061
8/14/2019	1559	1.9995	282.5655967
8/14/2019	1600	2.012	292.033983
8/14/2019	1601	1.979166667	292.5915716
8/14/2019	1602	2.031166667	283.8050619
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8/14/2019	1611	1.9505	294.0649321
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292.406147	148.3886122	3.668333333	295.5612326	145.2813731	148.0813829
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275.0604702	178.6826588	2.6425	280.6787895	165.8817303	175.2120639
279.6595738	167.9477962	2.5395	284.0869305	159.6833855	164.3105096
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283.5046272	160.6694434	3.696666667	285.4834647	157.4326212	158.6558876
294.3098997	146.444954	3.006333333	296.8450826	144.177515	145.8972961
281.9858595	163.3799615	2.591166667	283.8931046	160.008425	163.7513322
270.9450489	190.6290546	2.433166667	275.2083964	178.2978184	185.1216001
274.4932816	180.1849653	2.884	278.7703423	169.8372739	175.0717393
292.6704857	148.1058458	2.947166667	294.7502778	146.0253891	146.6906687
279.3455216	168.6056532	3.213666667	281.1372218	164.9858095	164.7197593
292.41715	148.3767575	3.303389831	292.8859533	147.878478	148.6874099
294.0241661	146.7231219	3.0365	296.3618847	144.5824813	146.8786636
282.7921499	161.915539	3.175166667	285.5036598	157.4012211	159.7711828
299.7303198	142.0135145	3.396	301.3275897	140.9953787	141.8854122
298.0584244	143.2151974	2.685333333	299.4535255	142.2027182	143.1176148
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308.3581173	137.9256907	3.459833333	309.4626762	137.6423008	137.8837737
301.3276815	140.9953237	3.681166667	304.9941086	139.1159688	140.6822034
291.8803982	148.9636881	2.653666667	294.96746	145.8225213	146.8996528
283.6788244	160.3714501	4.173333333	285.0927974	158.0463937	157.3095436
294.7710397	146.0058806	3.065833333	296.4544991	144.5038887	146.1543149
301.4076673	140.9475957	2.663333333	300.610637	141.4369749	140.7832615
301.8881624	140.6673209	3.618333333	303.9062989	139.6087539	140.3290333
297.6263888	143.5489986	3.924333333	298.8808049	142.6064002	143.1276567
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293.0706426	147.6858034	3.4075	295.2389574	145.5726463	146.4840954
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280.8833894	165.4793693	4.276	283.2456725	161.1172404	163.133541
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8/14/2019	1636	2.206666667	299.2778264
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8/14/2019	1638	1.5715	294.3013773
8/14/2019	1639	2.001864407	299.8947863
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139.2831358	1.461166667	305.6849355	138.8307342
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299.8542829	141.9300153	3.768	300.2061049	141.6971763	142.1828608
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293.8823594	146.8629245	2.7995	294.4946838	146.2675577	146.954222
297.6557653	143.5259936	3.430333333	298.4494625	142.9213982	143.0334431
297.6698868	143.5149509	3.854833333	299.3469895	142.2765613	143.4618163
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293.1140238	147.6408418	2.969833333	292.5226265	148.2634907	147.3854677
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307.6835602	138.1246185	3.011166667	308.8668137	137.7886709	138.266377
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290.615563	150.4179031	3.137833333	291.6943741	149.1712494	149.9538129
294.4077533	146.3507694	2.792166667	296.2831746	144.649639	144.5761314
298.7779326	142.680665	3.5625	300.1304817	141.7467091	142.3815034
298.1764577	143.1256854	3.102166667	300.4642061	141.5302366	142.7364041
284.7494287	158.5959316	4.125666667	286.1042483	156.4819463	157.2875169
293.0705393	147.6859107	3.287833333	295.0576801	145.7390283	146.6766896
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296.4163404	144.5362141	3.100833333	296.6134969	144.3700414	145.1390179
294.8801269	145.9037786	2.907666667	295.140591	145.662702	146.1094998
310.9201268	137.3480624	2.759322034	310.4810391	137.427218	137.8841671
305.9541036	138.7253672	2.006333333	308.5603049	137.8698965	138.6772834
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304.2146583	139.4636026	3.3745	304.2460105	139.4490875	139.3687458
305.4894845	138.9092671	3.717333333	305.64296	138.8474564	138.8882409
289.570036	151.6978787	3.686333333	289.8216024	151.3833029	150.8113226
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141.1464308	1.309	302.5105866	140.3205479
142.4612395	2.2165	297.0700638	143.9932202
139.3054295	2.292333333	303.6604359	139.7276059
138.4232112	2.329	304.8916691	139.1600887
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139.1194208	2.476666667	303.4880091	139.8126161
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139.4372688	2.156	304.3162263	139.416742
140.7662808	2.8715	300.9544121	141.2221276
139.8645021	2.7975	303.4193564	139.8468448
147.5352344	2.631833333	293.754404	146.9900738
149.4896853	2.5475	290.8294923	150.164798
144.707076	2.527666667	294.4362919	146.323404
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296.414309	144.5379371	3.6675	295.5565288	145.2855829	144.3260574
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294.4535943	146.3068356	3.151666667	293.0668219	147.6897687	146.1409686
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296.8517433	144.1720201	2.188333333	297.174802	143.9083401	144.9914573
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311.6971892	137.2279368	2.588	312.1218778	137.1730297	137.2322843
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309.6150658	137.6073057	1.8895	311.3970566	137.2713166	138.2673144
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297.9881915	143.2688011	2.6015	298.4494903	142.9213777	144.2256351
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299.2899187	142.3163528	3.106166667	298.1197353	143.1686117	142.8136094
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293.3673382	147.380529	2.857	292.562892	148.2204293	147.8966307
295.1726805	145.6332642	2.079833333	295.2419657	145.5699007	146.3981151
293.4138237	147.3331713	2.281833333	292.847188	147.9191785	147.5757999
291.1502909	149.7907501	2.524	292.0117685	148.8183999	149.8424777
285.2387439	157.8156811	2.038166667	287.3763966	154.6253325	155.5552435
294.6319505	146.1370398	2.717166667	294.0639914	146.6840688	146.2776138
281.1770636	164.9089005	2.196333333	283.8608213	160.0628699	162.4984459
291.079022	149.8732821	1.639333333	292.0888363	148.7336627	149.6985147
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282.0316062	163.295298	1.4815	283.1261664	161.3258523	162.0485338
285.9601086	156.7000205	1.557833333	286.7668861	155.4997782	156.7594847
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287.3915926	154.60388	1.8895	288.6104392	152.9371597	153.6716276
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298.577524	142.826888	2.036333333	297.217462	143.8739347	143.415334
294.9813023	145.8096814	1.619833333	292.4252274	148.3680597	145.7677349
296.244509	144.6827526	1.941186441	295.9627472	144.9265096	145.0453005
294.0362908	146.7112226	1.970666667	293.5361456	147.2091624	147.0866885
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300.5870058	141.4519548	1.5835	299.3139623	142.2995689	141.7394753
298.912392	142.5837049	1.508833333	297.8046308	143.4101079	142.9125679
292.4342134	148.358388	1.410666667	290.3147225	150.7788463	149.6909552
291.9163772	148.9237913	1.450166667	289.4739719	151.8191221	148.9369237
293.0111594	147.7476361	1.409166667	292.541288	148.2435212	147.4455791
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8/14/2019	1904	1.208666667	280.6973789
8/14/2019	1905	1.3635	287.5378209
8/14/2019	1906	1.360833333	307.256207
8/14/2019	1907	1.446333333	306.4598537
8/14/2019	1908	1.358333333	306.3389157
8/14/2019	1909	1.1775	303.5728615
8/14/2019	1910	1.388	298.6979644
8/14/2019	1911	1.398166667	303.9294416
8/14/2019	1912	1.183333333	304.0074846
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8/14/2019	1916	1.024166667	295.3851423
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8/14/2019	1918	0.967833333	294.4915465
8/14/2019	1919	1.023833333	304.6845608
8/14/2019	1920	1.072333333	301.6628119
8/14/2019	1921	0.930833333	301.0946419
8/14/2019	1922	0.803166667	300.95963
8/14/2019	1923	1.110333333	300.7246617
8/14/2019	1924	1.144833333	298.8452572
8/14/2019	1925	1.115666667	303.7213692
8/14/2019	1926	0.932333333	301.6372888
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8/14/2019	1928	0.946949153	301.198644
8/14/2019	1929	1.1	309.877772
8/14/2019	1930	1.192166667	301.7586069
8/14/2019	1931	0.964666667	295.993019
8/14/2019	1932	1.3095	309.1426349
8/14/2019	1933	1.0605	285.9627694
8/14/2019	1934	0.914833333	288.9671496
8/14/2019	1935	1.0325	289.0740355
8/14/2019	1936	0.896	285.976739
8/14/2019	1937	1.022666667	288.8096401
8/14/2019	1938	0.892333333	285.3973174
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8/14/2019	1953	0.574833333	297.2994889

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141.1361338	1.248	297.8452046	143.3787231
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143.8336679	0.885	297.3862926	143.7387151
142.2085787	1.0525	296.2027382	144.7186166
141.335693	1.080166667	296.7971124	144.2171589
142.3808952	1.027	296.9413668	144.0983135
141.611078	1.135666667	299.4191236	142.226501
141.1153834	0.972666667	297.849312	143.3755507
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297.8522865	143.3732539	1.582	293.8829275	146.8623621	143.6876182
298.8450972	142.6321172	1.352166667	294.957381	145.8318771	142.9772764
299.6131926	142.093111	1.756666667	297.3523632	143.7657692	142.4460454
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299.7532725	141.9979964	1.702166667	295.2222555	145.587899	142.8047387
288.8759619	152.5879378	1.7455	287.6886352	154.1879055	152.2788586
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284.612033	158.818497	1.552	282.8754287	161.7675972	157.2890139
286.7012739	155.5955521	1.7445	285.7755431	156.9815985	154.696379
281.4989708	164.2930305	1.578333333	281.4951399	164.3003024	162.0507772
288.6683131	152.8606264	1.693	287.6479456	154.2445094	153.6905984
286.6993959	155.5982982	1.582666667	284.4598829	159.0667619	156.9537405
285.6544631	157.1677587	1.628833333	283.0812588	161.4045653	156.6600351
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293.0208423	147.7375563	1.866666667	290.23875	150.8709296	147.2957177
289.4855343	151.8044963	1.6355	288.0650664	153.6698759	152.5375413
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297.112206	143.9589981	1.608833333	294.7035774	146.0693597	143.7673925
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295.8902583	144.9899214	1.290666667	292.0548691	148.770965	145.3333174
299.4014047	142.2387736	1.406666667	296.2779096	144.6541432	143.455028
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8/14/2019	1958	0.583333333	300.0281853
8/14/2019	1959	0.6345	301.2111877
8/14/2019	2000	0.775666667	293.2193185
8/14/2019	2001	0.679833333	298.0684276
8/14/2019	2002	0.629152542	298.4721626
8/14/2019	2003	0.5455	302.2665379
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8/14/2019	2005	0.612166667	300.3469918
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8/14/2019	2008	0.744166667	300.3261453
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8/14/2019	2011	0.565333333	294.5150364
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283.5578239	160.5781667	0.950166667	286.9183747	155.2798773	156.9225382
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298.5016047	142.8828157	1.009333333	302.2156992	140.4825595	142.5187563
299.9580148	141.8607288	1.052	302.0471554	140.5769996	141.4959937
299.1578334	142.4090741	1.048666667	303.4168525	139.8480973	141.8834232
294.2031092	146.5483669	1.056333333	299.3843286	142.2506158	145.7876734
295.6602804	145.1930092	0.91	301.3216142	140.9989567	143.1828786
296.2935113	144.6408003	0.9795	301.9252113	140.6461669	143.7155763
297.2001541	143.887882	0.870166667	303.4087432	139.8521557	142.1117367
285.3160087	157.694227	0.876166667	291.5868034	149.2922574	154.2949228
287.4252659	154.5564027	0.788	293.9646022	146.7817021	150.0929813
294.2785985	146.4751974	0.746833333	300.1665171	141.7230709	144.9066903
297.4832765	143.6617174	0.763333333	302.5540451	140.2970174	142.3447065
309.7981868	137.5665638	0.749333333	314.1619315	137.0146569	137.1914527
307.3788499	138.2209538	0.673728814	314.8201171	137.0006752	137.5963027
306.8592802	138.3945647	0.721833333	314.4386676	137.0065751	137.5867227
306.0634998	138.6834637	0.6795	313.348987	137.0568979	137.8733002
315.1447709	193.747258	0.717333333	320.1328869	193.747258	193.747258
315.6313412	193.747258	0.731833333	320.6447262	193.747258	193.747258
311.3277138	137.2818787	0.644	320.5763043	193.747258	151.4598524
310.1058622	137.5013256	0.669166667	319.6635973	193.747258	151.5625828
300.4301119	141.5521015	0.633833333	313.5145778	137.0460539	140.7525949
313.0121105	137.0824988	0.685833333	322.0830757	193.747258	179.5810682
313.5508811	137.0438298	0.823833333	320.9821024	193.747258	165.3922328
306.0027974	138.7066498	0.854	315.4482153	193.747258	152.5900707

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8/14/2019	2045	0.361	292.5526763
8/14/2019	2046	0.391666667	289.250505
8/14/2019	2047	0.3235	281.9731417
8/14/2019	2048	0.2505	272.8001333
8/14/2019	2049	0.228833333	267.4328024
8/14/2019	2050	0.263833333	255.5157615
8/14/2019	2051	0.2225	254.8731397
8/14/2019	2052	0.456666667	269.3377279
8/14/2019	2053	0.356	272.4493973
8/14/2019	2054	0.248666667	276.3613905
8/14/2019	2055	0.252	259.224648
8/14/2019	2056	0.260166667	284.4092436
8/14/2019	2057	0.243833333	291.7866134
8/14/2019	2058	0.246833333	289.7567575
8/14/2019	2059	0.181166667	293.6479898
8/14/2019	2100	0.128333333	318.80566
8/14/2019	2101	0.0835	321.4974782
8/14/2019	2102	0.0955	15.76505294
8/14/2019	2103	0.123666667	288.3599537
8/14/2019	2104	0.2225	287.3551313
8/14/2019	2105	0.232	291.5058986
8/14/2019	2106	0.188833333	288.9766224
8/14/2019	2107	0.2485	268.0029168
8/14/2019	2108	0.281166667	284.3196991
8/14/2019	2109	0.286779661	269.139018
8/14/2019	2110	0.334	279.4326025
8/14/2019	2111	0.458166667	287.0596501
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8/14/2019	2113	0.3795	281.4626366
8/14/2019	2114	0.463666667	283.915185
8/14/2019	2115	0.529833333	286.7312255
8/14/2019	2116	0.660166667	282.5509333
8/14/2019	2117	0.518166667	276.4728617
8/14/2019	2118	0.525166667	278.4977928
8/14/2019	2119	0.552666667	278.2695987
8/14/2019	2120	0.5945	278.7022306
8/14/2019	2121	0.715833333	278.5151756
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8/14/2019	2124	0.5555	284.0243448
8/14/2019	2125	0.626666667	292.5234388
8/14/2019	2126	0.391	296.9911373
8/14/2019	2127	0.329666667	295.6356689
8/14/2019	2128	0.385833333	300.0799474
8/14/2019	2129	0.422166667	303.0682562
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8/14/2019	2132	0.303166667	321.2646395
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8/14/2019	2134	0.263833333	312.294304
8/14/2019	2135	0.2915	319.9646158

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163.4035323	0.423666667	284.1639675	159.5550699
184.9336676	0.286	274.8028251	179.3597854
185.6194577	0.265666667	270.4247811	192.3266797
159.0268931	0.303333333	256.3646511	160.4455797
157.992395	0.305833333	252.6209332	154.6215617
191.5460549	0.512166667	266.183134	182.0334879
185.9693891	0.369333333	272.7327603	185.1311858
175.3937012	0.304333333	274.609234	179.8743568
165.6913262	0.3065	260.1047803	167.4608341
159.1498119	0.309666667	280.4174621	166.4015997
149.0680624	0.308333333	289.848821	151.3495198
151.4639853	0.309333333	286.780012	155.4806569
147.0965447	0.2675	290.3380483	150.7506498
193.747258	0.1995	301.8750649	140.6748149
193.747258	0.129	310.1861001	137.4849742
156.9976819	0.119	341.326612	193.747258
153.271097	0.163333333	296.9334284	144.1048247
154.6553814	0.246166667	290.1217705	151.0134554
149.383745	0.284	290.1866207	150.934332
152.4568179	0.250338983	291.0109264	149.952441
187.3327554	0.308166667	273.3664478	183.2998651
159.297185	0.350833333	286.6059327	155.7352962
190.9002666	0.348833333	274.1118781	181.2195227
168.4222183	0.386166667	280.4732603	166.290034
155.0763373	0.588	285.3172348	157.6923034
175.5040814	0.521666667	277.6601493	172.3158146
164.362055	0.4275	281.4167446	164.4494138
159.9712378	0.5375	287.2210134	154.8456579
155.5517919	0.606666667	285.5012414	157.4049797
162.347522	0.7635	281.0674289	165.1209004
175.1216747	0.6235	275.9600408	176.3857189
170.4332104	0.573833333	278.3954857	170.6589874
170.9383729	0.599333333	280.8990384	165.4487615
169.9854506	0.684333333	281.4743561	164.3397777
170.3949625	0.727333333	276.5364488	174.967175
149.4000298	0.9015	289.4797659	151.8117919
156.7101517	0.732166667	287.5326073	154.405608
159.7879954	0.607666667	284.7199149	158.643611
148.262621	0.743666667	289.3031562	152.0362467
144.0575667	0.522666667	298.4143173	142.9474824
145.2149154	0.430166667	294.0490376	146.6987219
141.7799658	0.489333333	300.5482551	141.4765779
140.025304	0.572833333	304.0369785	139.5467098
193.747258	0.388666667	321.4129859	193.747258
193.747258	0.353833333	330.8468033	193.747258
193.747258	0.417666667	319.2574679	193.747258
193.747258	0.385833333	323.6535991	193.747258
137.1528998	0.358666667	313.9923894	137.0211878
193.747258	0.391166667	318.0431982	193.747258

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293.8514006	146.8936009	0.817666667	306.840593	138.4010291	145.2105707
290.1240614	151.0106556	0.817333333	302.5714492	140.2876189	148.7710561
281.677984	163.9547638	0.759	294.8515206	145.9304881	158.2109635
275.7723232	176.8565527	0.591833333	288.8767521	152.5869057	173.4342279
270.5832906	191.8045948	0.547833333	283.196962	161.2021204	182.7382132
257.6790731	162.7642753	0.475666667	263.356025	174.7070233	164.2359428
254.7990558	157.8752721	0.524166667	254.7044498	157.72634	157.0538922
265.1006	179.1049485	0.8085	268.779751	189.7494325	185.608481
268.3148586	188.2915948	0.633	276.7266226	174.5080061	183.4750439
271.4788164	188.934292	0.5405	277.5003164	172.683989	179.2215847
263.5821953	175.2558435	0.574333333	271.6167103	188.5040001	174.228001
274.9212229	179.047534	0.641	282.9555794	161.6257898	166.5561839
288.6011634	152.9494478	0.594166667	295.908064	144.9743187	149.5853372
284.3754443	159.2053614	0.608666667	292.3777431	148.4192485	153.642313
285.2638751	157.7761248	0.532166667	290.4993076	150.5566873	151.5450016
295.6583241	145.1947493	0.503	298.2149819	143.0966258	155.678362
298.7445228	142.7048996	0.424166667	302.4387359	140.3596458	153.5741944
320.4611261	193.747258	0.372	313.1866009	137.0686457	170.3902109
291.0245215	149.9366136	0.456166667	297.7343837	143.4646483	147.6942959
288.2538508	153.4138744	0.519333333	298.809882	142.6575428	150.4350635
288.6057674	152.9433479	0.458666667	292.5997549	148.1810927	150.3606294
290.6870612	150.3329837	0.414333333	293.4894924	147.2563553	149.9996495
277.6221581	172.4030634	0.4935	286.6553264	155.6628134	174.6746243
286.6893852	155.6129405	0.597288136	291.3020313	149.6161021	155.065381
275.0009584	178.8382885	0.683	284.2751482	159.370754	177.5822079
276.9989834	173.8579056	0.6325	281.8732405	163.5892049	168.0398407
283.6810378	160.3676803	0.9775	288.0009475	153.757399	156.72343
273.9198122	181.7480731	0.875666667	281.3254394	164.6238109	173.547945
278.3276059	170.8094194	0.835166667	284.8725086	158.3978575	164.5046864
282.4119856	162.5987153	0.892666667	287.8264458	153.9970797	157.8531727
281.835516	163.6595574	0.968333333	289.7310244	151.496081	157.0281025
278.7518944	169.8773581	1.180833333	283.9197813	159.963502	164.3273206
274.1347659	181.1568778	1.0155	280.4363797	166.3637405	174.757003
277.6084464	172.4345933	0.936333333	281.9214468	163.4994958	169.2565717
278.8830725	169.5931227	0.909333333	282.6168821	162.2289031	167.05229
277.8911165	171.788903	0.985	282.7730025	161.9496404	167.0159429
274.5707669	179.9772004	1.2505	282.0121308	163.3313177	172.1676639
287.1121416	155.0010869	1.3295	291.9324222	148.9060249	151.2797334
283.0432225	161.4713719	1.019166667	287.7463608	154.1078071	156.6737347
280.2096608	166.8198026	1.008333333	287.3582296	154.6510013	159.9756026
285.9282296	156.7484677	1.127166667	293.6954386	147.0489888	151.024081
294.1824529	146.5684455	0.844	299.4120766	142.2313801	143.9512187
291.6496678	149.2214526	0.756166667	297.4099489	143.7198882	146.2137445
296.557777	144.4167927	0.841666667	301.7389541	140.7531759	142.1066281
301.9369195	140.6394954	0.910833333	308.3065998	137.940189	139.5379245
315.2711968	193.747258	0.700166667	317.0065135	193.747258	193.747258
326.1013914	193.747258	0.664	327.5402887	193.747258	193.747258
316.5413973	193.747258	0.744333333	319.0970733	193.747258	193.747258
322.7316549	193.747258	0.705166667	323.635414	193.747258	193.747258
310.526384	137.4186656	0.708833333	313.2802605	137.0617353	137.1636221
314.1877754	137.0137668	0.764333333	316.2340032	193.747258	179.5638852

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8/14/2019	2137	0.2995	302.7688511
8/14/2019	2138	0.307333333	310.3828522
8/14/2019	2139	0.242166667	304.5424929
8/14/2019	2140	0.265666667	299.5945341
8/14/2019	2141	0.329666667	283.8500989
8/14/2019	2142	0.4465	292.6942816
8/14/2019	2143	0.461864407	287.9823126
8/14/2019	2144	0.418166667	293.7355703
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8/14/2019	2146	0.573	270.7142634
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8/14/2019	2149	0.498	260.1314813
8/14/2019	2150	0.5195	264.5982509
8/14/2019	2151	0.564833333	265.4089484
8/14/2019	2152	0.6985	272.108161
8/14/2019	2153	0.6545	274.0958845
8/14/2019	2154	0.687333333	280.7213227
8/14/2019	2155	0.707666667	282.9917275
8/14/2019	2156	0.633833333	281.0342514
8/14/2019	2157	0.731333333	281.5047734
8/14/2019	2158	0.7695	277.3583764
8/14/2019	2159	0.752166667	282.4376717
8/14/2019	2200	0.561666667	277.2509219
8/14/2019	2201	0.743	277.6348774
8/14/2019	2202	0.897666667	284.0416923
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8/14/2019	2207	0.4985	283.5209808
8/14/2019	2208	0.5215	291.840271
8/14/2019	2209	0.484666667	279.5309136
8/14/2019	2210	0.5755	281.9429323
8/14/2019	2211	0.433833333	285.1505236
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8/14/2019	2215	0.682833333	287.2142807
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8/14/2019	2218	0.595	291.1210545
8/14/2019	2219	0.665666667	300.1361622
8/14/2019	2220	0.756	290.5471821
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8/14/2019	2222	0.583	298.501345
8/14/2019	2223	0.651	296.6878729
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8/14/2019	2225	0.613	297.8856328
8/14/2019	2226	0.6675	295.2910049

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142.1058539	0.347166667	295.6805592	145.1749846
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177.799073	0.580166667	260.8633781	169.0489263
179.9229437	0.582333333	263.1015258	174.0967894
186.9950153	0.791166667	271.6866526	188.2869125
181.263341	0.715166667	271.4052032	189.1652536
165.7977504	0.821333333	279.4211427	168.4463133
161.5620191	0.793166667	282.1670756	163.0457076
165.1852823	0.744666667	282.937317	161.6580511
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173.2643223	0.623333333	279.6228599	168.0241768
172.3738347	0.817166667	277.735727	172.1427339
159.7589668	0.9575	282.6036939	162.2525931
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159.9985811	0.706	285.0321705	158.1427334
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157.9549369	0.538666667	285.2154644	157.8523676
170.9536037	0.577666667	279.8348192	167.5851124
163.2425946	0.717333333	283.0437883	161.4703773
148.5404616	0.724333333	292.3401286	148.4598951
154.8552445	0.784745763	286.3137847	156.1677706
149.4056233	0.8125	291.4722936	149.4218663
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149.8245678	0.758666667	291.9229575	148.9165031
141.7429786	0.854166667	296.4284184	144.5259739
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141.2084599	0.817166667	299.5639771	142.1267604
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145.3745427	0.583166667	297.2192419	143.8725014
143.347536	0.844166667	298.3531567	142.9930259
145.5252147	0.776166667	295.4432963	145.3872953

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312.3098121	137.1511505	0.7335	317.5931692	193.747258	179.5982312
302.2245708	140.4776256	0.656	311.7127431	137.225792	139.2741974
307.6679539	138.1294543	0.683166667	313.3644607	137.0558361	137.5872908
300.9762337	141.2086834	0.511	311.3816663	137.2736433	139.2666163
296.8542253	144.1699731	0.583166667	304.7988265	139.2004839	142.6628239
282.4190214	162.585954	0.608666667	293.5229764	147.222471	156.5608203
287.6387273	154.2573498	0.769	294.7288493	146.0455498	149.239886
287.4111765	154.5762579	0.917457627	295.0307607	145.7638926	151.4398116
290.6611849	150.3636793	0.871666667	294.2764459	146.4772793	147.8261133
278.6849425	170.0231403	0.963333333	285.5274825	157.364222	161.3508824
269.1310416	190.8744827	0.946333333	273.3067126	183.4699928	189.3314918
267.0177186	184.4030394	0.971666667	269.8509315	193.24514	188.4037371
266.7424352	183.6103542	0.924833333	267.8581733	186.893031	188.5613102
259.6309874	166.4987217	0.877	259.4829409	166.2026756	166.2644272
258.9459345	165.1468198	0.8385	262.7330684	173.2268525	171.3054179
260.7502642	168.8083376	0.947666667	267.4571176	185.6915149	177.1298964
269.4233954	191.8265294	1.2015	273.8264932	182.0067339	187.2787978
269.2428858	191.2369959	1.0975	274.8332082	179.2794792	185.2362674
275.8617681	176.6316571	1.271666667	281.5181158	164.2567105	168.7831078
280.5316781	166.1735594	1.198666667	283.6724682	160.3822779	162.790891
280.4643906	166.3077481	1.1655	283.5822307	160.5363698	163.4218628
278.4457213	170.547982	1.265166667	284.3710923	159.2125207	164.5389429
275.9393126	176.4374933	1.356	281.149465	164.9621597	170.8832244
278.4291889	170.584483	1.251333333	284.9467134	158.2790303	163.5682963
275.4807571	177.5966582	1.1105	280.8060672	165.6309513	171.1290272
275.3736523	177.8712486	1.340666667	282.8145923	161.8756106	171.065857
279.4576924	168.3695131	1.463666667	284.4846244	159.0262617	162.3518337
280.0866246	167.0694444	1.148333333	281.7074765	163.8993211	164.4479724
281.0614492	165.1324965	1.169833333	286.4591874	155.9517205	159.8063828
285.281799	157.7479435	1.054833333	289.5640693	151.7053912	153.2403779
274.2076619	180.9578389	1.1005	280.8184214	165.6066934	173.5245415
281.545996	164.2038806	0.925666667	284.4109146	159.1470681	160.7520686
287.56701	154.3574554	0.955	289.3714404	151.9492139	151.147226
277.4604615	172.7762495	0.879166667	285.4316944	157.5132623	165.9990753
281.7979811	163.7296871	1.072333333	288.031798	153.7152512	160.0246548
281.9688481	163.4114935	0.947333333	286.2865724	156.208383	158.8567952
276.0297298	176.2120429	0.959833333	282.4929751	162.4520898	169.3007122
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288.3550837	153.2776329	1.081166667	293.9498822	146.7962106	149.26855
285.4086483	157.5492285	1.242666667	291.1517946	149.7890122	154.590314
288.114116	153.6031196	1.183166667	293.3862361	147.3612611	149.9479676
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290.3019823	150.7942618	1.238166667	295.5458549	145.2951406	148.7076183
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297.4056111	143.7233382	1.2275	299.9341865	141.8765975	142.233789
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293.1063631	147.6487734	1.0995	296.4474512	144.5098533	145.5462734
296.7235774	144.278169	0.941333333	299.529298	142.1505437	143.9189392
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8/14/2019	2228	0.662833333	293.9364361
8/14/2019	2229	0.752166667	296.2780291
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8/14/2019	2231	0.628666667	296.6921692
8/14/2019	2232	0.7045	298.5139709
8/14/2019	2233	0.709833333	295.9330071
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8/14/2019	2235	0.661166667	300.4221307
8/14/2019	2236	0.8065	298.951453
8/14/2019	2237	0.729	301.1780679
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8/14/2019	2245	0.899666667	293.6832667
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8/14/2019	2247	0.906666667	297.1094396
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8/14/2019	2249	1.1005	297.6039898
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8/14/2019	2300	0.901	293.6185935
8/14/2019	2301	0.813333333	284.7698439
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148.7445721	1.003	292.0031243	148.8279271
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147.015942	1.011333333	294.5943427	146.172692
147.1260732	0.942	293.1543667	147.5991296
158.5629922	0.895666667	284.7855134	158.537733
163.7258448	0.723666667	280.4852496	166.266102
155.3180288	0.959833333	289.876809	151.3148332
152.3148172	0.927	289.7413895	151.4831478
160.0785188	1.075	281.966711	163.4154566
162.2304582	0.961666667	282.7991945	161.9030008
161.420023	0.942166667	282.001897	163.350259
164.0112463	0.855	281.594434	164.1122686
158.1077517	0.815333333	287.6842607	154.1939852
154.183556	0.891166667	287.407177	154.5818967
159.3514624	0.824833333	284.0966446	159.6671782
164.277516	0.7305	284.7354625	158.6184852
160.254915	0.835666667	284.4081371	159.151629
149.2603205	0.8615	290.7303162	150.2817692
167.3390305	0.7995	280.0135121	167.2185105
163.8551386	0.944166667	280.7931577	165.6563155
164.3853799	0.769333333	281.4636021	164.3602192

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294.9312692	145.8561422	1.365333333	299.0296468	142.4998988	144.8587858
293.6596516	147.0848444	1.373666667	298.416418	142.9459216	145.0382364
296.1213215	144.7887925	1.512	301.6976968	140.7771025	142.7329283
295.9055922	144.9764836	1.1745	299.8578033	141.9276551	143.6800581
295.1006802	145.6993951	1.261166667	299.4651772	142.1946765	143.6118368
294.3636672	146.3931347	1.217	296.7236776	144.2780857	144.8973652
294.5031206	146.2595047	1.160166667	297.7295469	143.4684131	144.2648083
298.8667802	142.6164932	1.190166667	301.012426	141.1864362	141.616604
295.7768951	145.0896664	1.394666667	299.4259814	142.2217553	143.2786571
297.1171299	143.9550058	1.321666667	300.6863412	141.3891692	142.1529596
296.5329069	144.4377135	1.2455	299.170925	142.3998449	143.2654729
293.3613967	147.3865911	1.419833333	296.0897343	144.8161157	145.5356448
290.9715604	149.9983377	1.397666667	291.9222297	148.9173091	147.8115465
288.1000146	153.622294	1.450666667	293.1314492	147.622813	150.6582557
290.9825182	149.985552	1.462	292.8908445	147.8733491	148.3411623
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294.1422047	146.6076387	1.671	298.7327457	142.7134559	145.420373
292.4427507	148.3492038	1.602833333	299.638189	142.0760668	145.7757144
297.0509803	144.0087481	1.564166667	300.2775061	141.6506669	142.8427833
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296.9955963	144.0539226	1.854833333	300.8521322	141.2854493	143.2608465
298.7137929	142.7272403	2.038333333	301.355599	140.9786302	142.1506523
295.9271967	144.9575725	1.877118644	297.8082294	143.4073208	144.2704378
294.0296151	146.7177732	2.018	296.9642977	144.0795237	144.5090168
296.7102347	144.2892702	1.723333333	300.0478343	141.801165	143.0481335
297.5459525	143.6122202	1.512	299.9923204	141.837932	142.8319363
294.0721699	146.6760602	1.751166667	295.0314442	145.7632608	145.2052824
291.4170588	149.4846785	1.475166667	294.8881716	145.8962755	147.2939644
290.5242883	150.5267918	1.4185	294.4246072	146.3346027	148.6084734
296.2305881	144.6946944	1.291666667	296.6163977	144.367612	144.3623055
295.6164759	145.2320219	1.549666667	298.3965609	142.960685	145.3453352
292.3309609	148.4698148	1.44	294.7949624	145.9834322	147.2946124
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287.842552	153.9748665	1.499	290.3701266	150.7119311	152.1211906
278.9975126	169.3466546	1.548166667	282.9820776	161.5790317	163.6049154
280.6039695	166.0298879	1.465166667	282.5413424	162.3648051	163.132038
277.8000721	171.9958861	1.429166667	282.6033859	162.2531465	164.7548287
280.2035102	166.8322463	1.333666667	281.2586719	164.7518395	164.9269002
286.1278606	156.4463745	1.287166667	285.7256705	157.0581391	156.4515626
286.8766237	155.3403126	1.3155	290.7493687	150.259249	153.5912536
282.3130688	162.7785978	1.188166667	283.4412116	160.778571	160.6439523
282.3253127	162.756284	1.122166667	281.2283932	164.8100391	162.6155811
281.0179091	165.2170338	1.245833333	284.8367301	158.4553099	160.7697219
289.2753617	152.0717631	1.205333333	288.0040782	153.7531188	151.3417429
275.6898897	177.0647092	1.237	280.4923514	166.2519328	169.4685458
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8/14/2019	2320	0.754333333	279.5844401
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8/14/2019	2340	0.516166667	271.853775
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8/14/2019	2342	0.778833333	270.7758928
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8/15/2019	0000	0.3765	249.0388369
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8/15/2019	0002	0.477	235.2924599
8/15/2019	0003	0.420833333	236.1805329
8/15/2019	0004	0.426	243.1086557
8/15/2019	0005	0.391333333	237.0429508
8/15/2019	0006	0.396	241.5766177
8/15/2019	0007	0.279333333	235.3056458
8/15/2019	0008	0.3245	234.4501521

158.9461814	0.7925	285.4426517	157.4961768
151.9204254	0.902333333	288.1343729	153.5755998
168.1042546	0.843	281.1576024	164.9464487
167.022428	0.794666667	281.4928085	164.3047284
155.5400067	0.798666667	283.8057299	160.1559828
161.9413522	0.739666667	283.5311848	160.6238447
162.8621427	0.823389831	281.904097	163.531758
171.0795236	0.792666667	281.8933836	163.5516937
177.2685579	0.650666667	275.6261483	177.2262538
173.4314642	0.820333333	275.4913736	177.5695201
172.5348452	0.8065	279.9319346	167.3854717
169.7392628	0.624	278.7322303	169.9201251
163.82996	0.7195	279.6383108	167.9920154
174.1232678	0.7715	275.5925459	177.3116219
158.0550558	0.748	285.5831749	157.2778997
161.6112275	0.843	282.8009397	161.8998953
177.6009531	0.714833333	275.3601371	177.9060028
174.5510486	0.512166667	274.9764716	178.9024589
158.1313802	0.495333333	284.3725699	159.2100899
167.2783734	0.542666667	281.7213788	163.8732144
180.9334174	0.5145	273.9804129	181.5807517
192.6930126	0.572333333	268.1052019	187.6454666
187.7713462	0.571166667	270.2173947	193.0162963
188.112619	0.6255	270.7940011	191.1172044
191.175983	0.8445	270.3375378	192.6158789
170.0956791	0.823333333	278.8253742	169.717916
165.9334077	0.9745	280.8180753	165.6073728
171.4911034	0.854833333	277.9820827	171.5830267
172.900166	0.719333333	276.9702913	173.9259776
192.7081788	0.568	270.1653449	193.1905514
192.7333433	0.6785	270.2971769	192.7501153
189.2248806	0.627	272.6252537	185.4477712
179.2022782	0.582666667	264.3534426	177.1744735
173.3068127	0.654833333	262.1947877	171.9841755
175.337143	0.682333333	263.4926892	175.0379119
170.6382425	0.740666667	262.1522515	171.887381
165.3252319	0.606666667	258.8030865	164.8706396
171.861345	0.631333333	257.6819832	162.7695788
158.6258191	0.598166667	251.9496179	153.6898944
151.3619101	0.59	247.8896129	148.7100325
148.6878619	0.6995	248.6346505	149.5436553
148.5546368	0.556610169	245.4739805	146.2376681
150.0104763	0.545666667	246.8966559	147.6519002
149.6924152	0.521333333	244.6100857	145.4354928
139.2405815	0.611	236.4514463	139.7826103
139.6504122	0.593	234.5673907	138.9324402
144.1393993	0.517166667	239.1257471	141.2717113
140.0830216	0.513666667	239.9032672	141.7689053
142.9407485	0.506666667	243.4690511	144.439362
139.2464045	0.384666667	235.8180299	139.4787839
138.8848309	0.425333333	235.7644408	139.4539211

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283.2712197	161.0728057	1.234833333	281.2320714	164.8029645	160.5795321
284.9707891	158.2405721	1.325333333	285.4272384	157.5202132	155.3142026
277.5330806	172.6082792	1.245	278.8292834	169.7094497	168.8421081
279.279099	168.7461026	1.2715	282.1793345	163.0232042	165.7741158
280.4306102	166.3752831	1.2455	280.3118642	166.6135806	162.1712133
279.9398454	167.3692516	1.097666667	282.1387723	163.0977155	163.258041
279.2169853	168.8778584	1.2485	280.3863362	166.4639682	165.4339318
276.6270634	174.7478476	1.176166667	282.5325328	162.3806875	167.9399381
274.1225874	181.1902021	1.075084746	276.2428584	175.6846181	177.842408
272.9237505	184.5730143	1.2795	277.3730597	172.9792153	177.1383035
278.0522866	171.4247722	1.199166667	279.7117907	167.8394009	169.7961225
275.271618	178.1342102	0.946166667	274.8414874	179.2576173	174.2628038
276.1964317	175.7990331	1.108333333	277.3239602	173.0936214	170.1786575
274.2054398	180.9638955	1.217833333	278.0461108	171.4386718	175.9593642
283.1925684	161.2097866	1.080833333	281.4789393	164.3310692	160.2184528
279.5590089	168.1573442	1.3495	282.4868056	162.4632386	163.5329264
275.4474687	177.6818442	1.108833333	278.6405246	170.1201229	175.8272307
271.0144412	190.4060733	0.919666667	272.6742226	185.3033528	182.2907334
279.9090938	167.4323396	0.779	276.4231716	175.2427488	165.0041396
278.4942849	170.4409329	0.870666667	278.274322	170.927859	168.1300949
272.1220187	186.9530145	0.873	271.2372216	189.6955917	184.7906938
265.8462139	181.1048737	0.947166667	268.7140533	189.541287	187.74616
265.6372002	180.5366658	0.918666667	270.1444574	193.260613	188.6462303
267.643995	186.2483148	1.003833333	271.5313604	188.7699703	188.5620271
269.0464092	190.6015634	1.2575	273.6466792	182.508591	189.2255041
273.5192055	182.8671407	1.3175	275.984053	176.3258087	174.7516361
276.4691467	175.1307163	1.487833333	278.691083	170.0097497	169.1703116
277.7510569	172.1077056	1.281833333	278.1889903	171.1181855	171.5750053
272.9086503	184.6169475	1.153166667	274.5186869	180.1167558	177.8899617
267.1720774	184.8523945	0.982166667	271.6356689	188.4450788	189.7990509
264.3060534	177.054445	1.020666667	266.8028542	183.7833847	186.5803221
268.3645428	188.4457365	0.991166667	270.6855363	191.4701038	188.647123
262.0425926	171.6387808	0.884333333	268.3441598	188.382452	179.0994961
261.366465	170.1354035	0.965	266.1254683	181.8734291	174.3249552
261.8960353	171.3086295	1.020333333	265.9800425	181.4718426	175.7888817
260.3195805	167.9044898	1.112833333	265.7087086	180.7303905	172.7901259
255.9647787	159.7697922	0.846666667	259.7832449	166.8054543	164.1927795
254.4134631	157.2726964	0.950833333	256.5706923	160.7990941	163.1756786
250.0583995	151.2347339	0.880666667	257.6948872	162.7931044	156.585888
246.39762	147.1423814	0.915666667	253.1508241	155.3801144	150.6486096
247.0608742	147.8227975	0.981	253.1681846	155.4053176	150.3649081
242.6100524	143.7358043	0.9	250.4904661	151.7741667	147.575569
242.7824727	143.8738822	0.78440678	251.1337282	152.6005967	148.5342139
240.0485606	141.865105	0.823666667	248.9009347	149.8500385	146.7107629
238.1743145	140.7031415	0.865666667	248.6138344	149.5198934	142.3115567
232.8922271	138.310059	0.8265	242.4593052	143.6163644	140.1273189
240.0759256	141.8833403	0.8435	248.9990198	149.9640279	144.3146197
238.7371171	141.0342148	0.798	248.0720195	148.9109416	142.9492708
239.5109846	141.5143618	0.770666667	249.1327282	150.1204058	144.7537195
233.6810083	138.5876644	0.644166667	246.4959552	147.2416209	141.1386184
233.1263508	138.3896044	0.761166667	243.3091316	144.3053999	140.2584391

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8/15/2019	0009	0.322833333	235.7167296
8/15/2019	0010	0.2495	259.7717853
8/15/2019	0011	0.196166667	254.9979267
8/15/2019	0012	0.23	255.4051162
8/15/2019	0013	0.186666667	254.6390316
8/15/2019	0014	0.193666667	227.1755037
8/15/2019	0015	0.1955	257.2419248
8/15/2019	0016	0.195	281.1076856
8/15/2019	0017	0.211666667	264.8486191
8/15/2019	0018	0.212666667	248.1221928
8/15/2019	0019	0.191833333	255.4460931
8/15/2019	0020	0.199	260.1493606
8/15/2019	0021	0.238666667	252.97549
8/15/2019	0022	0.2515	238.974571
8/15/2019	0023	0.2535	256.6306555
8/15/2019	0024	0.3015	241.1335284
8/15/2019	0025	0.342166667	238.162798
8/15/2019	0026	0.388333333	253.6051957
8/15/2019	0027	0.348166667	255.9990489
8/15/2019	0028	0.405666667	243.1589885
8/15/2019	0029	0.349833333	244.3505655
8/15/2019	0030	0.335833333	246.3092859
8/15/2019	0031	0.426666667	243.5385749
8/15/2019	0032	0.325762712	259.4258159
8/15/2019	0033	0.385	246.5617652
8/15/2019	0034	0.356	246.4158645
8/15/2019	0035	0.360833333	254.280087
8/15/2019	0036	0.329666667	236.5189493
8/15/2019	0037	0.297	234.7360227
8/15/2019	0038	0.3625	241.8324072
8/15/2019	0039	0.453	248.3812691
8/15/2019	0040	0.416666667	241.3355239
8/15/2019	0041	0.416	239.5252227
8/15/2019	0042	0.569166667	240.4092778
8/15/2019	0043	0.566	240.9656489
8/15/2019	0044	0.630333333	244.7577394
8/15/2019	0045	0.719666667	242.1612849
8/15/2019	0046	0.791333333	248.6032101
8/15/2019	0047	0.6305	249.2416872
8/15/2019	0048	0.6635	259.6523802
8/15/2019	0049	0.589	252.9791821
8/15/2019	0050	0.679666667	260.5752369
8/15/2019	0051	0.716	267.4820208
8/15/2019	0052	0.703833333	265.1164652
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8/15/2019	0054	0.724833333	274.0549597
8/15/2019	0055	0.628333333	276.0717761
8/15/2019	0056	0.668666667	263.1008426
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8/15/2019	0058	0.728333333	267.088282
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161.9762482	0.268166667	252.2231074	154.0655388
165.0429227	0.244833333	274.0880159	181.2849118
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158.9131181	0.272666667	251.8500329	153.5544342
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155.1268267	0.3345	253.068708	155.2612056
141.1784588	0.369166667	242.6547892	143.77148
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142.6167154	0.4455	241.9205652	143.1992112
140.6965247	0.52	239.9355571	141.7901946
156.047188	0.516	250.3876561	151.644678
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145.2026588	0.484333333	244.4736321	145.312606
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143.1323832	0.507	241.5101589	142.891508
149.2562663	0.5085	246.3937524	147.1384899
142.7631943	0.538833333	240.8013523	142.3803296
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145.5696316	0.814	242.2199765	143.429184
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149.507776	0.981166667	249.6458306	150.7311832
150.2486851	0.748833333	247.2488683	148.0204187
166.5416798	0.6975	258.149299	163.631223
155.1321369	0.691666667	254.139012	156.8509134
168.4386997	0.782666667	256.9796605	161.5116245
185.7654075	0.789333333	264.3396462	177.1395003
179.1467282	0.766166667	264.1542895	176.6719577
189.6256879	0.725833333	266.4431722	182.7610784
181.3756245	0.801166667	271.8075982	187.9133575
176.1075481	0.763833333	271.0347957	190.3408194
174.0951616	0.774333333	265.8847287	181.2102309
171.0127377	0.757833333	259.9264391	167.0960401
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235.8575388	139.497198	0.722333333	247.778056	148.5881683	141.9400329
245.9841136	146.7312525	0.6	250.962497	152.3778525	154.5792318
244.4748343	145.3136842	0.605	248.9188724	149.870839	151.4154688
244.2310983	145.0967262	0.560833333	250.5125899	151.8021243	152.173458
247.7417252	148.5486453	0.508666667	252.650068	154.6627333	153.8300884
232.917957	138.3186835	0.554833333	246.5840205	147.3309781	140.3651571
246.5270706	147.2731406	0.545333333	253.4537926	155.823185	154.7845281
262.6218643	172.9674038	0.392333333	262.3502244	172.339622	172.9087151
258.5958105	164.473348	0.471666667	260.5503467	168.3863933	172.1369575
249.4736494	150.5243255	0.522833333	258.3513592	164.0100062	154.2350246
251.2138334	152.7054931	0.513166667	257.5631478	162.5536333	156.9316697
254.7162764	157.744919	0.502333333	257.8671443	163.1085965	162.047925
249.9718761	151.1282015	0.527333333	257.3542439	162.1770909	155.9233312
242.2675975	143.4661903	0.562666667	256.2275416	160.212341	147.1571175
250.4316873	151.7000482	0.580333333	258.6317404	164.5419244	157.8069394
241.5390834	142.9129109	0.671	251.4113912	152.966089	145.4237316
240.0468883	141.8639918	0.803333333	247.6310002	148.428689	143.19485
248.8879123	149.8349506	0.859	252.334666	154.2203055	152.9367805
254.122525	156.8257624	0.801833333	255.2885202	158.6572509	157.8164524
246.5267323	147.2727976	0.904	252.4462488	154.3760032	147.7320749
245.7666423	146.5190085	0.842833333	250.9190823	152.3216963	147.3389924
247.2547213	148.0266056	0.7705	250.4184208	151.6833517	148.0536715
246.8079481	147.5602525	0.883166667	253.8608569	156.4293926	148.3489095
257.2961366	162.0730469	0.714666667	259.6154901	166.4676304	162.6036013
250.5862272	151.8954166	0.833	256.4849419	160.6515268	151.9957803
248.4067456	149.2849802	0.803220339	253.8477867	156.4097321	149.9180616
255.0285019	158.2394404	0.7325	255.9906115	159.8130428	157.0840423
243.7753374	144.6997807	0.770833333	247.9195827	148.7429017	143.7111555
238.6512272	140.9827086	0.703833333	245.8929445	146.6419429	141.5897689
241.3929764	142.8052359	0.7475	246.7802449	147.531727	144.0902135
244.1541144	145.0288798	0.773166667	247.4538064	148.2382753	147.4154778
241.5457158	142.9178246	0.797666667	249.2015535	150.2013464	144.5656737
241.2488201	142.7000662	1.017333333	248.2149435	149.0697996	143.7498145
240.1061154	141.9035009	1.151166667	247.6238173	148.420933	143.8577792
242.5821276	143.7135889	1.178166667	249.9539677	151.1062134	145.0411
242.9174452	143.9830669	1.181333333	250.7030565	152.0441808	146.2565158
243.205201	144.2190739	1.262333333	250.9081186	152.3075352	145.7745288
248.8774121	149.8227929	1.304666667	254.7478895	157.794636	151.964097
247.6285586	148.4260522	1.139666667	253.9681528	156.5912848	150.8216102
255.4240418	158.8771893	1.0205	260.8360689	168.9907177	164.5102024
255.696405	159.3237596	1.077833333	259.2521528	165.7454683	159.2630695
257.2080088	161.9158217	1.118666667	261.9566955	171.4449892	165.8277838
262.8414407	173.481074	1.1675	266.3949293	182.6253708	179.7528381
261.6228962	170.6996747	1.116333333	264.7444234	178.175674	176.1735087
261.6906549	170.8499744	1.055833333	264.5405338	177.6511257	180.2219666
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267.0396828	184.4667646	1.134666667	268.2852533	188.1999334	184.7787664
261.7571709	170.9980082	1.143833333	266.1110448	181.8334675	177.034217
257.772416	162.9347665	1.124833333	263.2799435	174.5237877	168.891833
261.1430653	169.649611	1.0825	264.9658779	178.7515048	177.3943823
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8/15/2019	0100	0.646	254.8617207
8/15/2019	0101	0.6735	253.4833413
8/15/2019	0102	0.644833333	249.5492712
8/15/2019	0103	0.530666667	241.8369309
8/15/2019	0104	0.599	241.3594325
8/15/2019	0105	0.684166667	245.0589159
8/15/2019	0106	0.546949153	253.4419778
8/15/2019	0107	0.741833333	264.9408501
8/15/2019	0108	0.459	264.8103204
8/15/2019	0109	0.518833333	270.0324688
8/15/2019	0110	0.4015	265.3659011
8/15/2019	0111	0.438	265.394621
8/15/2019	0112	0.388833333	260.3640731
8/15/2019	0113	0.457	259.0064378
8/15/2019	0114	0.575166667	263.7238297
8/15/2019	0115	0.635166667	256.7502216
8/15/2019	0116	0.660333333	257.4058533
8/15/2019	0117	0.690666667	263.5044533
8/15/2019	0118	0.672	263.4397538
8/15/2019	0119	0.685	260.3235021
8/15/2019	0120	0.641166667	256.648071
8/15/2019	0121	0.644833333	262.1482939
8/15/2019	0122	0.629166667	254.8156425
8/15/2019	0123	0.664333333	258.1880206
8/15/2019	0124	0.7185	262.4563179
8/15/2019	0125	0.708166667	265.0007296
8/15/2019	0126	0.5615	260.9359916
8/15/2019	0127	0.753666667	260.5138336
8/15/2019	0128	0.624	264.7728638
8/15/2019	0129	0.640166667	256.4722806
8/15/2019	0130	0.5845	253.642895
8/15/2019	0131	0.654333333	260.2804048
8/15/2019	0132	0.667666667	264.4243391
8/15/2019	0133	0.723666667	260.287973
8/15/2019	0134	0.699166667	258.1978698
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8/15/2019	0138	0.705	255.3790224
8/15/2019	0139	0.596	241.414902
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8/15/2019	0142	0.593333333	255.995387
8/15/2019	0143	0.913166667	259.2213004
8/15/2019	0144	0.8285	269.1010517
8/15/2019	0145	0.841666667	263.7333835
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145.8470169	0.896666667	244.0526216	144.9399299
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179.8846545	0.501	263.9668318	176.2034895
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175.6026865	0.620333333	258.7021517	164.6766663
161.1100951	0.76	256.5747351	160.8060668
162.2697523	0.814833333	257.9998976	163.3535815
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157.9014567	0.823166667	252.260297	154.1170331
163.7035176	0.7615	258.9454383	165.1458571
172.583808	0.799666667	260.5917425	168.4734215
178.8427095	0.741333333	263.8166073	175.8312141
169.2040819	0.692333333	261.2003748	169.7737222
168.3097779	0.856333333	258.4436856	164.1843467
178.2492686	0.731833333	260.8194646	168.9553644
160.6297913	0.767666667	257.9733331	163.30443
156.1032344	0.724	253.6669107	156.1389941
167.8232238	0.763333333	260.0271286	167.301604
177.3545727	0.787833333	262.9234224	173.6742977
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163.7219284	0.791833333	258.0386463	163.4253933
171.5221923	0.757166667	258.2149947	163.7539611
172.2848055	0.851166667	259.5037377	166.2441322
153.1640975	0.798333333	248.7982636	149.7313747
158.803961	0.804	252.9521961	155.0933478
142.8213246	0.781	245.4464367	146.2114417
171.2431752	0.818333333	258.8550692	164.9709165
155.607449	0.757	252.2480547	154.1000709
159.8210444	0.698135593	255.5015017	159.0035731
165.6847416	1.054666667	258.7061289	164.6842913
190.7776355	0.952333333	266.0628437	181.700133
175.6261703	0.984666667	263.396479	174.8047357
176.381034	0.876833333	272.8578416	184.7650213
184.1153341	1.042666667	267.5476851	185.9606966
168.274024	0.8595	260.1665722	167.5879797
173.1886164	1.0325	259.8842738	167.01026
175.254297	1.0815	262.5182006	172.7268315

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249.9426382	151.0923139	1.097333333	255.6659079	159.2734522	152.8244425
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245.7391824	146.4924024	1.0805	255.1704667	158.4668789	147.902043
243.9066956	144.8130248	1.29	251.9403357	153.6772385	147.3193025
248.750606	149.6765208	1.001333333	254.5285426	157.4513059	153.8394062
260.2173537	167.6927604	1.1055	262.2605017	172.134114	174.1680645
259.2374376	165.7164927	0.768	262.3103601	172.248201	172.5184421
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265.6472574	180.5638697	0.704833333	268.1246052	187.7049726	182.3526457
264.6378644	177.900862	0.765	267.9712238	187.2361945	180.3063001
260.5565154	168.3993509	0.750666667	264.6738065	177.9933919	169.5493203
258.4782858	164.2498879	0.831	262.5102194	172.7083608	166.705203
258.6071825	164.4950395	0.984	265.1299275	179.182206	170.9891496
258.2824314	163.8803677	0.970333333	263.8221052	175.8447897	165.4103299
256.2122546	160.1864349	1.116333333	260.0224358	167.2920007	163.2754423
262.7150776	173.1847815	1.143666667	266.5749824	183.1335557	176.9665317
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260.3751584	168.0200505	1.145166667	264.7601416	178.2163347	170.5121494
256.4291983	160.5559357	1.1025	261.8692023	171.2484412	163.3563283
258.4394069	164.1762495	1.1365	264.8700259	178.5014846	171.2673377
253.3411244	155.6576122	1.161833333	259.1812523	165.6060529	158.3205387
257.8758017	163.124524	1.077333333	261.9264655	171.3769833	165.8377205
258.3625568	164.0311082	1.139666667	261.9517023	171.4337494	169.1305218
263.2864262	174.5393736	1.109333333	264.9519494	178.7150992	176.9820991
258.5008575	164.2927047	1.027	262.5128933	172.7145482	168.9962642
256.7844425	161.1696928	1.14	262.9480065	173.7323935	166.8490527
258.8932194	165.044674	1.070666667	263.2182788	174.3757806	171.6562719
256.411845	160.5262321	1.200833333	260.9830647	169.3049622	163.4413539
253.3357522	155.6497413	1.122166667	259.2961744	165.8322763	158.4310615
258.46782	164.2300512	1.148333333	262.7952816	173.3726263	168.1818763
261.9385594	171.4041776	1.180666667	264.2769418	176.9808511	174.8534748
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256.2114706	160.1851068	1.116166667	260.4149149	168.1029091	163.8588344
256.1955307	160.1581164	1.221333333	260.5430237	168.3710165	165.9513215
256.1611249	160.0999315	1.2145	259.1943922	165.6318537	166.0651807
247.3467814	148.1241875	1.166	251.6512896	153.286189	151.0764622
249.8297488	150.9542783	1.1105	252.947382	155.0864337	154.9845052
245.9292753	146.6774751	1.045333333	253.9689384	156.5924734	148.0756787
258.2305473	163.7830762	1.099833333	263.8528315	175.9207278	168.9794739
253.9809878	156.6107099	1.089666667	256.5804539	160.8159327	156.7835406
258.6710658	164.6171213	0.9985	262.9788756	173.8054423	164.3117953
258.2698916	163.8568305	1.464067797	263.610395	175.3247059	167.3876423
262.2039003	172.0049384	1.275666667	262.675411	173.0921544	179.3937153
261.7809185	171.0509773	1.382	264.6788447	178.0063757	174.8720647
266.3344463	182.4556984	1.305166667	266.8729868	183.9848997	181.8966634
264.9139189	178.6158261	1.472333333	267.7236473	186.4872583	183.7947788
258.802892	164.8702648	1.2905	261.5102103	170.450831	167.7957749
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8/15/2019	0152	0.812666667	269.2437315
8/15/2019	0153	0.8065	270.6580372
8/15/2019	0154	0.885166667	275.4022689
8/15/2019	0155	0.762666667	276.9923581
8/15/2019	0156	0.860833333	278.3688467
8/15/2019	0157	0.886666667	281.5943208
8/15/2019	0158	0.818666667	275.2516481
8/15/2019	0159	0.7515	280.8081694
8/15/2019	0200	0.766666667	273.1440079
8/15/2019	0201	0.617166667	275.6279637
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8/15/2019	0206	0.671	280.1161166
8/15/2019	0207	0.5435	283.8661685
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8/15/2019	0211	0.562333333	294.3876638
8/15/2019	0212	0.801166667	289.4004257
8/15/2019	0213	0.6815	292.6009313
8/15/2019	0214	0.639152542	293.3580751
8/15/2019	0215	0.592333333	291.0883214
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8/15/2019	0217	0.644833333	282.495658
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266.4992911	182.919359	1.423833333	270.5791379	191.8182175	187.3177885
270.5639609	191.8680309	1.368166667	271.1618414	189.9350755	190.4057803
269.0794309	190.707908	1.4705	270.2958445	192.7545515	185.8038443
271.4701367	188.961479	1.2755	272.4048745	186.1021951	182.5230743
273.9445252	181.6797776	1.600666667	275.0495261	178.711244	175.8556561
275.4314798	177.7228105	1.437333333	276.2046886	175.7786652	171.4225331
272.6355001	185.417523	1.460166667	275.5304678	177.4697105	181.4266647
274.8443512	179.2500574	1.324166667	274.4841315	180.2095533	173.3240116
269.7988693	193.0706949	1.293166667	272.731699	185.1343028	187.103479
274.0200766	181.4715149	1.114833333	274.5663269	179.989084	178.1361847
274.3726629	180.5100001	1.074	274.2436299	180.8598988	175.3548899
273.030008	184.2648142	1.274833333	272.4703032	185.9071333	183.5755969
275.9336425	176.4516653	1.164166667	274.7879825	179.399061	172.2716462
272.7268741	185.1484747	0.956833333	273.8020931	182.0745671	182.0626556
273.6630172	182.4628036	1.195333333	273.6192092	182.5856616	175.5998059
280.6706471	165.8978273	1.025666667	279.7734811	167.7116995	164.2103673
277.2526873	173.2601891	1.238666667	276.844347	174.2259298	168.5323335
277.7128101	172.1951475	1.105833333	278.5725562	170.2689388	166.3364955
278.7194872	169.9478619	1.127166667	277.3115693	173.122537	167.0516151
288.017075	153.7353573	1.151833333	283.9503605	159.9120808	152.3787916
282.3873969	162.6433479	1.458	283.5958439	160.513079	157.8280525
284.9109902	158.3361799	1.377333333	284.1713365	159.5428218	155.1498969
287.8626026	153.9472392	1.296	285.7917863	156.9567115	152.1514219
282.5621822	162.3272616	1.163333333	282.8195238	161.8668427	158.0705931
280.9705247	165.3092423	1.189833333	279.7957803	167.665635	161.1392846
280.2980617	166.64137	1.133050847	281.8054347	163.7157504	163.9808387
281.3183451	164.6373944	1.072333333	283.1793103	161.2329301	163.026537
275.8091763	176.7637695	0.973	276.2847714	175.5815538	171.3543105
268.7512156	189.6589388	0.842166667	271.1383248	190.0099792	184.1892421
278.297404	170.8765141	1.043666667	280.3170407	166.6031634	166.8638704
280.3077475	166.621867	1.170333333	281.7460182	163.8269889	158.3383926
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273.7269798	182.2839105	1.039666667	275.3553879	177.9182208	177.1162925
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141.0378979	0.8745	297.6757192	143.5103931
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144.2407171	0.937	294.7166641	146.0570255
139.346043	0.934	299.4670631	142.1933755
141.0363599	1.090666667	296.6434739	144.3449584
142.403175	0.780166667	294.5794122	146.1868684
138.138736	0.946166667	301.8991279	140.6610531
142.393604	1.101	293.8084531	146.936249
139.5349513	0.854	300.1323601	141.7454753
142.5613647	0.772666667	294.6721091	146.0990582
141.4706165	0.634166667	295.0605689	145.7363623
137.453413	0.882666667	306.6967836	138.4512902
138.53359	0.666666667	300.5083344	141.5020211
141.2587375	0.654915254	295.1002909	145.6997534
139.7655173	0.5575	297.0112441	144.0411428
142.8177492	0.680166667	294.8518212	145.9302072
145.1550845	0.586	290.598421	150.4383121
142.2552885	0.6105	295.1633832	145.6417873
145.5247807	0.492166667	287.793523	154.0425439
151.941243	0.584166667	283.6880917	160.3556693
149.6380403	0.699833333	285.3555169	157.6323061

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293.8018271	146.9428383	1.236166667	294.2193951	146.5325538	145.3161659
295.2776066	145.5374104	1.306166667	294.6976072	146.0749898	145.3535327
294.3440112	146.4120592	1.414666667	294.3389807	146.4169061	146.3704039
294.6940104	146.0783827	1.693833333	294.0298108	146.7175811	145.4189726
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294.2982268	146.4562258	1.254666667	295.5020042	145.3344717	145.1127801
296.8063737	144.2094956	1.095666667	298.9192324	142.5787967	143.4988178
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154.6838419	0.4645	281.1835481	164.8963974
162.3157228	0.542166667	280.1626963	166.9149152
162.7498767	0.534	277.9639614	171.6239653
157.0724809	0.531166667	282.7047782	162.0714112
148.9127523	0.542	283.5617047	160.5715175
156.9465823	0.548666667	278.5906537	170.2292658
155.4391061	0.5855	280.6084844	166.0209321
148.2609561	0.4775	285.1969795	157.8815289
148.4894623	0.491166667	284.6201971	158.8052292
160.4708172	0.506333333	279.4666829	168.350643
150.9593727	0.565333333	281.7893746	163.7457855
169.9517175	0.500666667	274.9505164	178.9705635
163.7446972	0.423666667	277.8307684	171.9259962
162.5033467	0.4925	277.2719108	173.2152051
177.752929	0.461	274.5394321	180.0611225
192.210758	0.431666667	270.102271	193.4023498
162.0618257	0.49	281.2383773	164.7908386
189.3571846	0.498666667	269.0303413	190.5498833
179.8481494	0.367833333	263.7544558	175.6780074
154.5051774	0.503333333	256.1157918	160.0234199
151.1755189	0.459833333	255.7379565	159.3924258
167.1397918	0.279	264.7072719	178.0796954
183.4354128	0.4755	266.8451403	183.9048013
186.4870696	0.341	266.6414912	183.3224461
177.8627826	0.3105	269.6959201	192.7271365
138.257003	0.300333333	251.50563	153.0913536
141.5703778	0.4545	246.4216496	147.1665795
141.7710456	0.436	246.738047	147.4883639
137.022084	0.424833333	233.2851137	138.4449133
137.4775271	0.405333333	237.2967428	140.2169005
137.7624589	0.578666667	224.7072118	137.0017888
137.6338199	0.4875	225.0783875	137.0001282
137.5339403	0.4365	225.4363885	137.0039738
137.4984007	0.448	228.2762903	137.224286
137.0216478	0.424	227.4567194	137.1260344
139.8122238	0.418333333	240.8054691	142.3832251
137.0410768	0.366	233.109283	138.3837243
137.0045142	0.324833333	222.3959478	137.1416181
137.3632352	0.261666667	217.815195	138.0842506
137.9128826	0.2635	217.8458408	138.0749606

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287.0290062	155.1203616	1.198333333	288.2492347	153.420104	151.5276252
286.1705318	156.3821989	1.164166667	287.0417169	155.1020924	153.5724837
285.2628843	157.7776834	0.876	285.4678588	157.4569079	157.1397345
276.2706627	175.6162232	0.865166667	280.9578423	165.3339585	173.5437569
281.1460587	164.9687379	1.038333333	282.8468932	161.8182206	164.348865
282.3103578	162.7835402	1.020833333	284.5615376	158.9006808	159.5418491
279.65118	167.9652467	0.735833333	280.0745295	167.0940675	165.1194183
269.6625362	192.6161246	0.630333333	274.5934576	179.9165118	188.6157914
271.2144647	189.7677924	0.691333333	275.8725935	176.6045063	187.2656231
277.5194227	172.6398242	1.081	279.7782486	167.7018469	168.2171448
282.4704123	162.4928788	0.791666667	282.834744	161.8397958	160.9782285
278.1880438	171.1203011	0.939166667	281.9049755	163.5301238	165.9702657
280.4305045	166.3754945	0.920666667	284.16824	159.547968	165.0743261
284.6103156	158.8212888	1.005666667	284.6777432	158.7118622	159.1692608
282.3724956	162.6704229	0.916666667	283.6093187	160.4900407	158.1611833
277.3651801	172.9975567	0.932666667	281.756511	163.8073208	165.9951814
281.9089408	163.5227482	0.963666667	285.3280382	157.6753601	160.6645366
285.1104615	158.0183798	0.914833333	289.4826712	151.8081171	153.9922455
286.1138068	156.4675413	0.91	286.7595109	155.5105277	154.8181901
282.3638801	162.6860859	0.877666667	285.1089516	158.0207735	162.3820799
279.4600701	168.3645216	0.932166667	281.326094	164.6225578	161.9230594
277.1390594	173.5269625	0.933166667	280.7424148	165.7561705	172.0513535
277.5900054	172.477032	0.794833333	278.4772749	170.4783989	169.6565311
276.0573512	176.1433728	0.742333333	281.1801643	164.9029213	169.1912115
272.1988912	186.7205653	0.792666667	276.1915792	175.8110069	180.0864059
269.2811806	191.361603	0.781666667	273.1969275	183.7840108	190.1896804
279.5059539	168.2683154	0.924067797	282.4971987	162.4444594	164.3913598
272.5367293	185.7097637	0.852333333	277.2837056	173.1876258	184.7011143
262.5402213	172.7778317	0.693	265.825012	181.0469631	177.3377379
254.3667901	157.2005535	0.774833333	259.2567997	165.7546227	159.3709434
255.4714294	158.9544487	0.733	261.6165816	170.6856935	160.0520217
261.0061701	169.3545643	0.643333333	259.1480515	165.540936	170.0287468
266.5658575	183.10769	0.790166667	268.6432299	189.3176912	184.9413988
262.4216586	172.5038948	0.606833333	262.9268539	173.6824026	178.9989533
268.54709	189.0154737	0.583833333	271.6742814	188.3252535	186.9826616
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137.5510707	0.3445	213.4305107	139.8412687
137.0533749	0.3455	220.8230914	137.364853
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140.0964144	0.278166667	210.4948762	141.5106161
137.1232079	0.223	217.3007125	138.246309
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138.4786438	0.2995	227.5838653	137.139429
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213.7835239	139.6677575	0.703166667	219.4573447	137.6435431	138.4060716
215.8489884	138.7661315	0.642333333	219.3833055	137.6609205	137.7992346
212.4005864	140.3805037	0.603	214.7308238	139.2303183	139.2017923
199.7896829	151.4229833	0.523833333	209.0849112	142.4606404	143.2836739
207.3117166	143.7982591	0.507	213.1744599	139.9707196	140.6406281
212.7078638	140.2144437	0.633166667	216.2511886	138.6128063	138.9561464
219.0177332	137.7501599	0.696333333	218.8183654	137.8012411	137.8783599
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211.1983942	141.0731204	0.790333333	210.0259264	141.8156565	139.8457823
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199.3147967	152.0213877	0.722666667	205.9562779	144.9321571	145.2996919
206.5751251	144.4022189	0.635	209.913756	141.8902258	141.1006985
204.3713687	146.3857257	0.5755	208.4871404	142.8935046	142.049541
195.3199225	157.6880874	0.597666667	204.2957588	146.4586101	147.7728469
204.821537	145.9585332	0.659666667	209.4568215	142.2004427	141.6356071
216.0551608	138.6866392	0.642	215.1586017	139.046111	138.3840099
219.4043805	137.6559502	0.6805	215.6202509	138.8565359	138.0904171
217.1276988	138.3033999	0.884666667	212.8983384	140.1137253	138.2440641
222.5195601	137.1284819	0.906	218.9327877	137.7717157	137.5642445
229.9981196	137.5229229	0.829333333	224.2646382	137.0112844	138.322147
225.1125383	137.0002643	0.881666667	223.1795133	137.0691836	137.3731068
227.0296272	137.0860013	0.8525	224.0639953	137.0182831	137.4319484
222.3008897	137.1521557	0.826666667	221.4251732	137.2670916	137.2383144
225.9734969	137.0197773	0.755833333	222.7411798	137.1065344	137.4526199
225.2897646	137.001752	0.6815	223.2856277	137.0613504	137.9125146
226.4442917	137.0435382	0.6435	223.7778903	137.0311708	137.7359084
222.0203787	137.1854629	0.63	217.9824143	138.0340546	137.563024
208.6545081	142.7704764	0.692666667	210.5369485	141.4837761	141.0924838
201.0691833	149.8847009	0.755333333	204.9808103	145.8101376	144.6689388
199.9024756	151.2830692	0.7345	201.2141468	149.7170764	145.6645541
202.901391	147.8622948	0.793	205.409263	145.418005	143.7272852
204.2107956	146.5409017	0.672	207.0331669	144.02326	142.1976876
209.3749616	142.257118	0.7115	209.6404292	142.0745408	140.1560664
203.5394429	147.2058318	0.767666667	205.7058909	145.1525005	144.1077494
201.3293946	149.5847628	0.6865	204.841174	145.9401601	144.7065416
212.1121543	140.5404196	0.624666667	209.4182213	142.2271256	139.3543245
205.9393427	144.946952	0.635	206.6735067	144.3198771	
212.0338984	140.5844849	0.585333333	211.1725433	141.0887722	
211.9191935	140.6495985	0.572166667	210.7811506	141.3296923	
197.5107148	154.436295	0.484333333	202.8707976	147.8943796	
200.1261168	151.0081438	0.368333333	206.4725634	144.4886133	
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217.7507722	138.1039128	0.479666667	211.6661968	140.7954252	
211.5669425	140.8534683	0.4915	208.944724	142.5605266	
218.9692416	137.7624272	0.472372881	211.799756	140.7180625	
216.204082	138.6303935	0.417166667	211.5178455	140.8823538	
214.8697165	139.169605	0.469666667	212.6742057	140.2324175	
213.7843109	139.6673771	0.423	209.167061	142.402568	
211.3428075	140.9862744	0.383166667	210.7817651	141.3293082	
212.2087233	140.4864416	0.364166667	213.514069	139.7996801	

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8/15/2019	0517	0.208666667	233.0440976
8/15/2019	0518	0.252666667	242.2558479
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8/15/2019	0520	0.217666667	234.4356331
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286.2108069	156.3217548	0.9065	293.4695809	147.276536
287.422009	154.5609912	0.942833333	295.3103218	145.5076494
292.751411	148.0201235	1.248	299.8039425	141.9638316
286.9491236	155.2354505	0.855333333	290.8454205	150.1460707
285.2938918	157.7289446	0.914166667	291.1702408	149.7677051
284.3558334	159.2376352	1.151833333	288.5283988	153.0460503
274.6972026	179.6399137	0.748166667	280.1315235	166.9781683
285.3339832	157.6660404	1.2275	291.1927479	149.7417366
272.6684776	185.3202771	1.242711864	278.0191073	171.4994971
278.5050227	170.4172981	1.124166667	285.2529603	157.7932984
287.0129867	155.1434034	0.904333333	293.3410638	147.4073527
282.6431158	162.1818257	1.1735	288.1999407	153.4867223
278.7180787	169.9509287	1.3045	283.0443074	161.4694647

8/15/2019	0657	0.7575	285.4067955
8/15/2019	0658	0.833333333	289.9105081
8/15/2019	0659	0.818	287.9653309
8/15/2019	0700	0.654	280.959505
8/15/2019	0701	0.853	281.8861074
8/15/2019	0702	0.617	289.8999629
8/15/2019	0703	0.929333333	288.0995084
8/15/2019	0704	0.815833333	283.1412607
8/15/2019	0705	0.864333333	286.8690799
8/15/2019	0706	0.782166667	286.6506461
8/15/2019	0707	0.745	283.8121465
8/15/2019	0708	0.847333333	289.3949347
8/15/2019	0709	0.820166667	298.4706687
8/15/2019	0710	0.868	299.5765686
8/15/2019	0711	0.672666667	300.6728381
8/15/2019	0712	0.805833333	292.0960649
8/15/2019	0713	0.919166667	294.9535286
8/15/2019	0714	0.894333333	298.0391504
8/15/2019	0715	0.825666667	283.1737843
8/15/2019	0716	0.838666667	287.8867502
8/15/2019	0717	0.925084746	289.2016874
8/15/2019	0718	0.843333333	294.0920112
8/15/2019	0719	0.972666667	288.5321247
8/15/2019	0720	1.018	285.0248303
8/15/2019	0721	1.083333333	293.851596
8/15/2019	0722	0.773833333	292.5673009
8/15/2019	0723	0.9125	287.5652338
8/15/2019	0724	1.156333333	299.9546925
8/15/2019	0725	0.934166667	294.553765
8/15/2019	0726	1.035833333	298.7583372
8/15/2019	0727	0.603166667	298.0460247
8/15/2019	0728	0.833833333	291.2552367
8/15/2019	0729	1.0445	289.7180068
8/15/2019	0730	0.787333333	304.6039509
8/15/2019	0731	0.822833333	299.1004967
8/15/2019	0732	1.095166667	299.8262815
8/15/2019	0733	1.000166667	306.7243638
8/15/2019	0734	1.007333333	300.9219517
8/15/2019	0735	1.210833333	300.5544326
8/15/2019	0736	1.154833333	303.081351
8/15/2019	0737	1.133166667	306.2588196
8/15/2019	0738	1.101	304.4201151
8/15/2019	0739	1.221166667	301.0123034
8/15/2019	0740	0.9075	315.6514356
8/15/2019	0741	1.2685	294.3805617
8/15/2019	0742	1.1645	310.48357
8/15/2019	0743	1.097	296.3376088
8/15/2019	0744	1.042833333	300.891825
8/15/2019	0745	1.196166667	303.3109484
8/15/2019	0746	1.000833333	305.8406528
8/15/2019	0747	1.044833333	315.5999342

157.5521218	0.921833333	286.5700257	155.7881029
151.2731375	0.9715	287.7870585	154.0514799
153.8061425	1.014	287.5249107	154.4163924
165.3307172	0.785666667	281.9891571	163.3738521
163.5652394	0.967666667	282.4665915	162.4997907
151.2861769	0.817	289.1545451	152.2267547
153.6229826	1.203666667	285.9941116	156.648432
161.2994349	0.922666667	284.4208344	159.1307841
155.3512461	1.062333333	285.7987941	156.9459807
155.6696736	0.986333333	286.5530424	155.8131132
160.1451245	0.865166667	282.5649877	162.3222104
151.9193417	0.958833333	288.7844543	152.7077403
142.90569	1.045	298.1787424	143.1239599
142.1181399	1.085333333	299.0485027	142.4864867
141.3976757	0.847	299.1532679	142.4122947
148.7257334	1.021833333	293.7341417	147.0102959
145.8354547	1.045833333	294.5570107	146.2081622
143.2298824	1.204333333	295.0387591	145.7565005
161.242581	0.935333333	282.3358301	162.7371275
153.9140049	1.004	286.4393061	155.9811671
152.1661593	1.120333333	285.3547582	157.633494
146.6566473	1.108	292.4469615	148.3446757
153.0410949	1.156333333	287.103464	155.0135129
158.1544173	1.197	283.6083662	160.4916687
146.8934071	1.351166667	291.3389354	149.5738468
148.2157202	1.002166667	292.0430244	148.7839894
154.3599394	1.097666667	286.2597559	156.2484599
141.8629397	1.4535	297.0254202	144.0295762
146.2112498	1.226	292.1296029	148.6889869
142.694872	1.38	296.5681867	144.4080457
143.2246426	0.858135593	300.5120215	141.4996678
149.6698056	1.026666667	291.6050671	149.2716613
151.512334	1.256166667	289.4880484	151.8013172
139.2865395	1.153333333	302.4457043	140.3558433
142.4495967	1.076666667	296.0430227	144.8566212
141.9488098	1.418833333	297.7751236	143.4329862
138.4415805	1.198833333	305.537377	138.889866
141.242169	1.2685	299.4709416	142.1907006
141.4726476	1.544	297.8234039	143.3955758
140.0185455	1.434666667	299.6615775	142.0601471
138.6099665	1.407666667	304.463464	139.3496439
139.3692963	1.252	303.8257172	139.6474021
141.1865114	1.5295	296.5100079	144.4570057
193.747258	1.124333333	308.4472717	137.9008711
146.3768865	1.612666667	293.2390496	147.5118866
137.4267383	1.586333333	307.8689945	138.0679687
144.6031584	1.225	294.0353053	146.7121895
141.2608152	1.2965	294.7968085	145.9817012
139.901338	1.349666667	299.829362	141.9467403
138.7693851	1.319666667	305.5756795	138.8744235
193.747258	1.371833333	314.1074443	137.0166249

1.215
1.211833333
1.350666667
1.056333333
1.2655
0.947
1.475333333
1.108833333
1.348333333
1.229666667
1.161
1.190166667
1.304166667
1.292833333
1.0255
1.257333333
1.293166667
1.430169492
1.145833333
1.225166667
1.340833333
1.35
1.325333333
1.455333333
1.655333333
1.118666667
1.4085
1.739666667
1.529166667
1.638666667
0.963333333
1.261666667
1.577
1.320833333
1.277333333
1.693
1.443
1.574833333
1.774
1.821833333
1.714333333
1.499166667
1.838833333
1.290333333
1.9335
1.834333333
1.564166667
1.620666667
1.764
1.482833333
1.5845

284.6754383	158.7155966	1.477	289.6388221	151.6114436
282.8325221	161.8437429	1.404	289.7066227	151.5265569
285.4557688	157.4757361	1.639333333	288.6276597	152.9143628
278.2787701	170.9179597	1.233833333	284.9744537	158.2347225
278.9985892	169.3443424	1.533	284.1842161	159.5214252
285.5890599	157.2687923	1.186333333	293.6304832	147.1141239
282.422978	162.5787798	1.741	288.246272	153.4241031
281.5818567	164.1360353	1.309166667	288.7943157	152.6948019
282.0594489	163.2438634	1.6285	289.7637826	151.4552309
282.6633191	162.1456118	1.442666667	289.6439249	151.6050442
281.0685123	165.1187998	1.369166667	285.089149	158.052183
289.3671991	151.9546105	1.428833333	297.4630105	143.6777662
294.5977527	146.169456	1.517666667	299.5412463	142.1423427
296.972993	144.0724061	1.6145	303.1476373	139.9844559
296.997275	144.052551	1.286666667	302.7046683	140.2161478
291.046539	149.9110056	1.576333333	295.5902753	145.255407
292.3497243	148.4495177	1.587	296.7570431	144.2503675
293.4801036	147.2658681	1.726166667	298.2279477	143.0868626
279.6163609	168.0377119	1.3265	281.5938869	164.1133022
285.107089	158.0237266	1.453833333	289.6397959	151.6102223
281.7664064	163.7887816	1.554333333	285.2213778	157.8430445
288.889914	152.5697222	1.686	292.9415472	147.820266
286.4703535	155.9351953	1.590166667	290.9949314	149.9710776
281.8657034	163.6032503	1.682833333	284.8506425	158.4329574
289.8772171	151.3143278	1.955333333	294.8427811	145.9386573
286.5846415	155.7665964	1.363666667	293.1462915	147.607471
284.1911978	159.5098324	1.763833333	289.7499937	151.4724171
296.014237	144.8816418	2.1255	298.9103916	142.5851406
290.6807463	150.3404707	1.991	294.2504242	146.5024676
295.615972	145.2324713	2.039661017	299.2675672	142.3319814
296.9653052	144.0786988	1.393	300.0651346	141.789738
288.3505909	153.2836641	1.5085	293.2003802	147.5516722
287.6426226	154.2519232	1.948333333	295.046795	145.7490775
302.06247	140.5683629	1.842666667	307.3195211	138.2401814
294.7446077	146.0307212	1.6845	299.7135882	142.024843
297.0569385	144.0038979	2.1035	299.5531886	142.1341529
303.7658396	139.6763132	1.792	306.748488	138.433115
296.5321602	144.4383422	1.9405	301.5766535	140.8477686
296.1815353	144.7368574	2.184666667	300.1708132	141.7202571
301.0877268	141.1403522	2.258	304.2594698	139.44287
303.2356801	139.9394926	2.114	306.6553164	138.4659517
302.0879107	140.55404	1.823666667	302.3729119	140.3956772
295.9514286	144.9363919	2.203666667	298.3121017	143.0237054
309.1071328	137.727808	1.716	308.704679	137.8311337
294.2662265	146.4871667	2.210333333	298.5908535	142.8170989
307.2565721	138.2607502	2.3095	309.863476	137.5523834
294.0454887	146.7022014	1.933666667	299.1998186	142.3795061
294.3176574	146.4374671	1.884166667	299.0895306	142.4573659
301.6926834	140.7800155	2.1915	306.5776005	138.4936335
304.4234749	139.36777	1.876666667	307.165776	138.2907229
312.4731922	137.1333343	1.9275	313.8412322	137.0280228

8/15/2019	0748	1.0465	309.0297414
8/15/2019	0749	1.0235	321.3470842
8/15/2019	0750	1.529	334.9184608
8/15/2019	0751	1.308983051	321.9691906
8/15/2019	0752	1.217	312.3435728
8/15/2019	0753	1.047	317.8761913
8/15/2019	0754	1.2035	327.6425815
8/15/2019	0755	1.15	313.539438
8/15/2019	0756	1.199166667	307.3964634
8/15/2019	0757	0.788666667	320.2383543
8/15/2019	0758	0.916333333	314.4487762
8/15/2019	0759	1.049666667	318.2133898
8/15/2019	0800	0.777333333	327.4026664

137.7471376	1.272833333	307.5948637	138.1522432
193.747258	1.089666667	317.3593605	193.747258
193.747258	1.893166667	330.6008794	193.747258
193.747258	1.526666667	319.9304237	193.747258
137.1473772	1.468333333	307.7748625	138.0965393
193.747258	1.362833333	313.1963363	137.0679103
193.747258	1.533	323.1750988	193.747258
137.0445249	1.390166667	307.9050736	138.0571201
138.2152751	1.583	305.0134543	139.1076899
193.747258	1.015333333	317.042973	193.747258
137.0063404	1.111833333	312.3511228	137.1465399
193.747258	1.269	317.254751	193.747258
193.747258	1.015666667	325.4360887	193.747258

1.595762712
1.391166667
2.152333333
1.922833333
1.780666667
1.571166667
1.6255
1.609666667
1.824833333
1.207833333
1.321833333
1.538833333
1.115166667

307.1362128	138.3005598	2.001666667	309.8409184	137.5572622
318.8980706	193.747258	1.769	320.2961813	193.747258
331.2622722	193.747258	2.616833333	329.2003391	193.747258
318.3198989	193.747258	2.381333333	319.5816697	193.747258
309.9104437	137.5422946	2.209166667	312.7975602	137.1012793
313.2685592	137.0625786	1.9135	315.3569841	193.747258
322.3677722	193.747258	2.029833333	321.4497911	193.747258
305.1088574	139.0671084	1.9835	306.2775778	138.6029968
303.9463733	139.5896443	2.341833333	307.1414827	138.2988035
315.8492091	193.747258	1.500333333	319.0193761	193.747258
313.1279172	137.0731625	1.725333333	314.5412478	137.0043915
317.3683667	193.747258	1.896333333	319.7475977	193.747258
321.5039097	193.747258	1.410508475	323.2870279	193.747258

Chemical:
MRID:
PC Code:
Plot:
Guideline:

Plot soybean
Sampling Period
1
2
3
4
5
6
7
8
9
10*
11**
12
13
14
15

The data points from 0.55 m for sampling periods 8 and 9 were excluded as outliers (Appendix D, Table 7, p. 554 of the s
* All but one sample for Period 10 was below the detection limit. As such, a concentration profile could not be developed.
** The samples for period 11 were wet. No flux was calculated (Appendix D, Table 7, p. 554 of the study report).

Dicamba DGA
51017502
128931
Soybean
835.8100

DTG	Air Concentrations (µg/m^3) at Heights (m)				
	0.35	0.53	0.75	1.1	1.7
8/8, 12:05 - 15:48	0.021645471	0.018816085	0.01343464	0.012122364	0.00731791
8/8, 15:55 - 19:41	0.017781736	0.012896622	0.009980815	0.010335383	0.006952139
8/8-9, 19:45 - 7:50	0.001224568	0.000955749	0.000893041	0.00072791	0.000476384
8/9, 7:53 - 19:29	0.009828074	0.007190921	0.004993136	0.004327028	0.003148439
8/9-10, 19:33 - 8:31	0.001105334	0.000794443	0.000604954	0.000566415	0.000375896
8/10, 8:34 - 19:15	0.007505467	0.005267742	0.005258226	0.003268181	0.002358691
8/10-11, 19:32 - 8:05	0.000782213	0.000825734	0.000869697	0.000373099	0.000476733
8/11, 8:06 - 18:44	0.004486277	0.003829892		0.002382399	0.001779253
8/11-12, 18:47 - 10:11	0.000847096	0.000724598		0.000523336	0.000385142
8/12, 10:12 - 18:54	0.000240408	0	0	0	0
8/12-13, 18:58 - 9:44	0.004375831	0.00173789	0.000729655	0.000120394	0
8/13, 9:48 - 19:05	0	0	0	0	0
8/13-14, 19:08 - 8:02	0	0	0	0	0
8/14, 8:06 - 18:53	0	0	0	0	0
8/14-15, 18:55 - 7:38	0	0	0	0	0

tudy report).

Regressed Logarithmic Profile Quality		
m	b	r^2
-0.009068155	0.012225341	0.974577353
-0.006232269	0.009911058	0.896011712
-0.000445369	0.000735597	0.977348297
-0.004152821	0.004779212	0.934963414
-0.000433447	0.000572686	0.93515336
-0.00316781	0.003878606	0.948970933
-0.000271131	0.000592483	0.551371614
-0.001759932	0.002653618	0.996191782
-0.000289395	0.000543443	0.9993308
0	0	NC
-0.002651908	0.000678625	0.819102545
0	0	#DIV/0!
0	0	#DIV/0!
0	0	#DIV/0!
0	0	#DIV/0!

Note: Measured air concentrations should be corrected for low field spike recoveries <90 percent.

Chemical:	Dicamba DGA
MRID:	51017502
PC Code:	128931
Plot:	Soybean
Guideline:	835.8100

Sampling Period	DTG
1	8/8, 12:05 - 15:48
2	8/8, 15:55 - 19:41
3	8/8-9, 19:45 - 7:50
4	8/9, 7:53 - 19:29
5	8/9-10, 19:33 - 8:31
6	8/10, 8:34 - 19:15
7	8/10-11, 19:32 - 8:05
8	8/11, 8:06 - 18:44
9	8/11-12, 18:47 - 10:11
10	8/12, 10:12 - 18:54
11	8/12-13, 18:58 - 9:44
12	8/13, 9:48 - 19:05
13	8/13-14, 19:08 - 8:02
14	8/14, 8:06 - 18:53
15	8/14-15, 18:55 - 7:38

Sampling Period	DTG
1	8/8, 12:05 - 15:48
2	8/8, 15:55 - 19:41
3	8/8-9, 19:45 - 7:50
4	8/9, 7:53 - 19:29
5	8/9-10, 19:33 - 8:31
6	8/10, 8:34 - 19:15
7	8/10-11, 19:32 - 8:05
8	8/11, 8:06 - 18:44
9	8/11-12, 18:47 - 10:11
10	8/12, 10:12 - 18:54
11	8/12-13, 18:58 - 9:44
12	8/13, 9:48 - 19:05
13	8/13-14, 19:08 - 8:02
14	8/14, 8:06 - 18:53
15	8/14-15, 18:55 - 7:38

Wind speed data from Appendix D, Table 7, p. 554 of the study report.
Average fetch from Appendix D, Table 8, p. 555 of the study report.

Average Wind Speed (m/s) at Heights (m)					Regressed Logarithmic Profile Quality		
0.53	0.75	1.1	1.7	[z_n]	m	b	r^2
1.81	2.02	2.32	2.49	[#]	0.600196771	2.204507879	0.982621143
1.51	1.66	1.93	2.07	[#]	0.500772265	1.829635007	0.978939435
0.62	0.75	0.84	1.00	[#]	0.317225135	0.826023982	0.992811198
1.35	1.57	1.78	1.99	[#]	0.547334442	1.713087847	0.996253553
0.34	0.42	0.49	0.62	[#]	0.235494434	0.484963202	0.989757149
0.89	1.03	1.15	1.28	[#]	0.331395316	1.112074778	0.995013699
0.39	0.49	0.59	0.72	[#]	0.281143995	0.568348367	0.99934666
1.48	1.77	2.05	2.35	[#]	0.743333654	1.967622263	0.998113847
1.32	1.61	1.82	2.14	[#]	0.687531686	1.773484241	0.994895654
1.68	2.04	2.36	2.78	[#]	0.93259454	2.284156994	0.998631454
1.43	1.67	1.91	2.27	[#]	0.713221627	1.872889291	0.996354071
1.91	2.37	2.70	3.24	[#]	1.113365142	2.637562125	0.994414414
0.54	0.63	0.76	0.92	[#]	0.328545515	0.73686345	0.994696851
1.64	1.97	2.28	2.63	[#]	0.843926133	2.192581746	0.998426613
0.57	0.70	0.87	1.07	[#]	0.431384103	0.834489495	0.998073029

Note: Raw meteorolog
should be averaged co
with air sampling perio

Average Fetch
160.43
157.85
163.88
175.13
169.43
155.07
153.5
169.23
152.96
158.4
152.89
161.07
162.28
155.91
155.39

gical data
onsistent
ds.

Chemical:
MRID:
PC Code:
Plot:
Guideline:

Plot Soybean
Period No.
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

The samples for period 11 were wet. No flux was calculated (Appendix D, Table 7, p. 554 of the study report).
Roughness length is from Appendix D, Table 8, p. 555 of the study report.
All samples in periods 12 through 15 were ND. Flux was estimated to be 0.000000 µg/m²/s (Appendix D, Table 8, p. 555 c

The reviewer edited the visual basic code used to calculate estimated flux to match the method used by the registrant. Specifically, the equation for zmax was changed as follows:

Original equation:

Revised equation:

Where mc and bc are the slope and intercept of the air concentration regression.

Dicamba DGA
51017502
128931
Soybean
835.8100

		Air Concentrations		
Sample Interval Times	Duration (Hrs.)	Slope	Intercept	RSq
8/8, 12:05 - 15:48	3.72	-0.009068155	0.012225341	0.974577353
8/8, 15:55 - 19:41	3.77	-0.006232269	0.009911058	0.896011712
8/8-9, 19:45 - 7:50	12.08	-0.000445369	0.000735597	0.977348297
8/9, 7:53 - 19:29	11.60	-0.004152821	0.004779212	0.934963414
8/9-10, 19:33 - 8:31	12.97	-0.000433447	0.000572686	0.93515336
8/10, 8:34 - 19:15	10.68	-0.00316781	0.003878606	0.948970933
8/10-11, 19:32 - 8:05	12.55	-0.000271131	0.000592483	0.551371614
8/11, 8:06 - 18:44	10.63	-0.001759932	0.002653618	0.996191782
8/11-12, 18:47 - 10:11	15.40	-0.000289395	0.000543443	0.9993308
8/12, 10:12 - 18:54	8.70	0	0	NC
8/12-13, 18:58 - 9:44	14.77	-0.002651908	0.000678625	0.819102545
8/13, 9:48 - 19:05	9.28	0	0	#DIV/0!
8/13-14, 19:08 - 8:02	12.90	0	0	#DIV/0!
8/14, 8:06 - 18:53	10.78	0	0	#DIV/0!
8/14-15, 18:55 - 7:38	12.72	0	0	#DIV/0!

of the study report).

zmax = exp ((0.1 - bc)/mc)

zmax = exp (-bc/mc)

Wind Speed				face and Boundary Layer Parame				**Estimated Flux**
Slope	Intercept	RSq		Fetch (m)	Roughness Length (m)	Z_{max} (m)		**($\mu g/m^2 \cdot s$)**
0.60	2.20	0.98		160.43	0.03	3.85		0.0004006
0.50	1.83	0.98		157.85	0.03	4.91		0.0003183
0.32	0.83	0.99		163.88	0.08	5.22		0.0000105
0.55	1.71	1.00		175.13	0.04	3.16		0.0000971
0.24	0.48	0.99		169.43	0.12	3.75		0.0000035
0.33	1.11	1.00		155.07	0.03	3.40		0.0000610
0.28	0.57	1.00		153.5	0.13	8.89		0.0000102
0.74	1.97	1.00		169.23	0.07	4.52		0.0000786
0.69	1.77	0.99		152.96	0.08	6.54		0.0000215
0.93	2.28	1.00		158.4	0.09	0.00		NC
0.71	1.87	1.00		152.89	0.07	NA		0.0000000
1.11	2.64	0.99		161.07	0.09	NA		0.0000000
0.33	0.74	0.99		162.28	0.11	NA		0.0000000
0.84	2.19	1.00		155.91	0.07	NA		0.0000000
0.43	0.83	1.00		155.39	0.15	NA		0.0000000