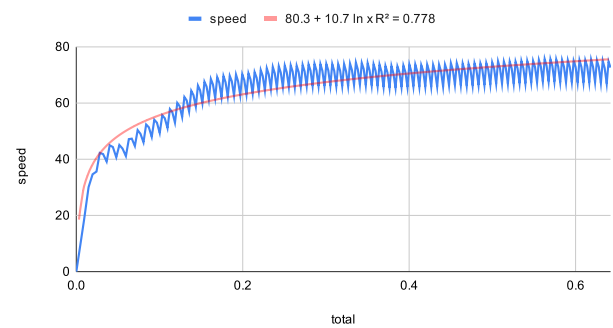
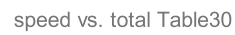
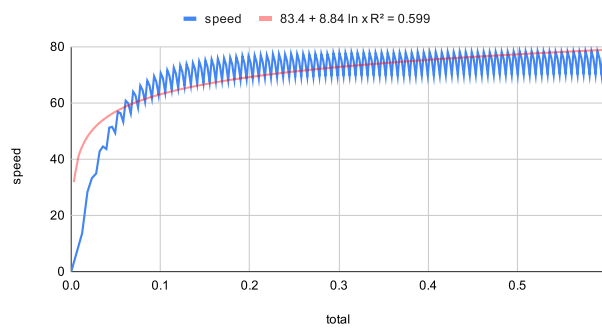
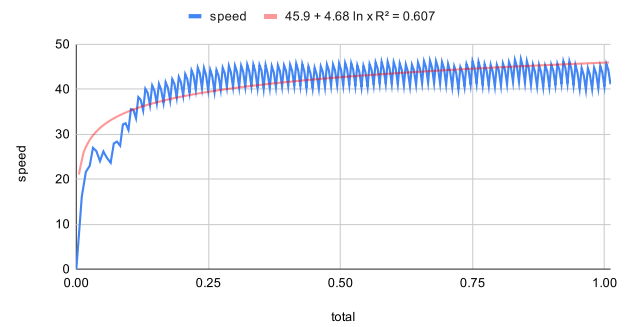
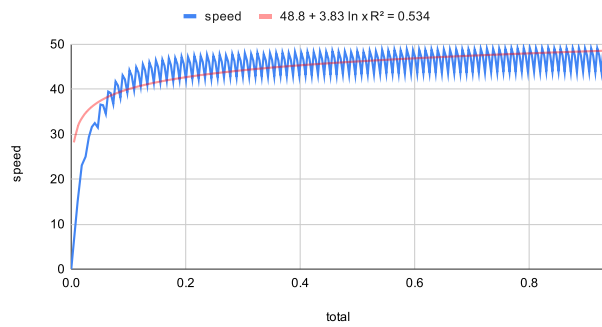
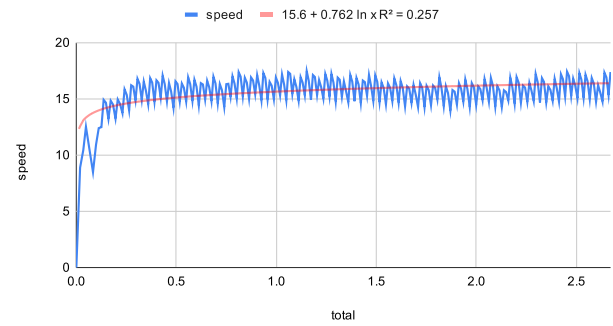
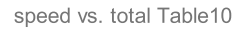
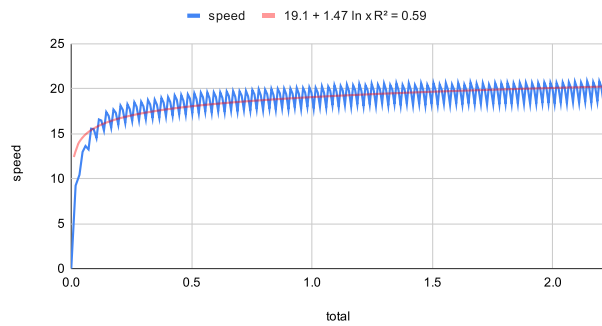
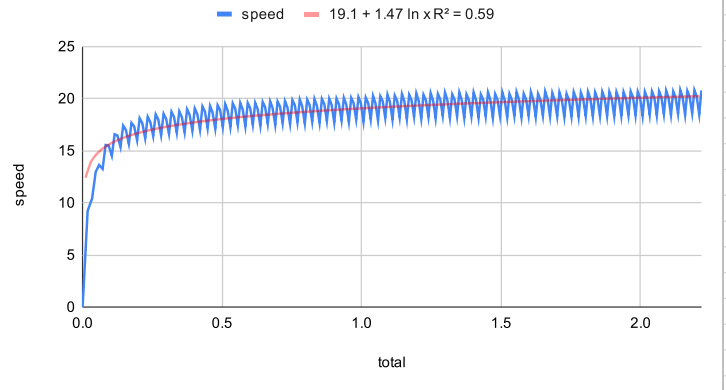


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Sample	enc_count	Delta	total	speed
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3	308607	0.012858625	0.04692979167	12.96146879
4	293592	0.012233	0.05916279167	13.62434944
5	301984	0.01258266667	0.07174545833	13.24573487
6	257302	0.01072091667	0.082466375	15.54593435
7	258128	0.01075533333	0.09322170833	15.49618794
8	275716	0.01148816667	0.104709875	14.50768182
9	241357	0.01005654167	0.1147664167	16.57296039
10	243123	0.010130125	0.1248965417	16.4525775
11	260595	0.010858125	0.1357546667	15.34948867
12	229896	0.009579	0.1453336667	17.3991718
13	235630	0.009817916667	0.1551515833	16.97576709
14	255534	0.01064725	0.1657988333	15.65349425
15	226448	0.009435333333	0.1752341667	17.66409948
16	230925	0.009621875	0.1848560417	17.32164123
17	250102	0.01042091667	0.1952769583	15.99347466
18	220901	0.009204208333	0.2044811667	18.10765909
19	226681	0.009445041667	0.2139262083	17.64594298
20	247148	0.01029783333	0.2242240417	16.18463431
21	219224	0.009134333333	0.233358375	18.24617743
22	225555	0.009398125	0.2427565	17.73403383
23	243934	0.01016391667	0.2529204167	16.39787811
24	216488	0.009020333333	0.26194075	18.47677469
25	222354	0.00926475	0.2712055	17.98933233
26	242858	0.01011908333	0.2813245833	16.4705301
27	215850	0.00899375	0.2903183333	18.53138754
28	221796	0.0092415	0.2995598333	18.03459034
29	240707	0.01002945833	0.3095892917	16.61771365
30	213623	0.008900958333	0.31849025	18.72457554
31	219338	0.009139083333	0.3276293333	18.23669405
32	239199	0.009966625	0.3375959583	16.72247794
33	213179	0.008882458333	0.3464784167	18.76357427
34	219598	0.009149916667	0.3556283333	18.21510214
35	238710	0.00994625	0.3655745833	16.75673411
36	210932	0.008788833333	0.3743634167	18.96345742
37	216798	0.00903325	0.3833966667	18.45035471
38	236430	0.00985125	0.3932479167	16.91832678
39	210060	0.0087525	0.4020004167	19.04217843
40	216092	0.009003833333	0.41100425	18.51063436
41	235266	0.00980275	0.420807	17.00203174
42	207928	0.008663666667	0.4294706667	19.23742834
43	213257	0.008885708333	0.438356375	18.75671139
44	233215	0.009717291667	0.4480736667	17.15155543
45	207497	0.008645708333	0.456719375	19.27738714
46	214346	0.008931083333	0.4656504583	18.66141659
47	233668	0.009736166667	0.475386625	17.1183046
48	206672	0.008611333333	0.4839979583	19.35433924
49	211690	0.008820416667	0.492818375	18.89555482
50	231616	0.009650666667	0.5024690417	17.26996408
51	205524	0.0085635	0.5110325417	19.46244721
52	212264	0.008844333333	0.519876875	18.84445784
53	231711	0.009654625	0.5295315	17.26288351
54	204701	0.008529208333	0.5380607083	19.54069594
55	210051	0.008752125	0.5468128333	19.04299432
56	229268	0.009552833333	0.5563656667	17.44683078
57	204386	0.008516083333	0.56488175	19.57081209
58	211026	0.00879275	0.5736745	18.95501028
59	230870	0.009619583333	0.5832940833	17.32576775
60	204302	0.008512583333	0.5918066667	19.57885875
61	209603	0.008733458333	0.600540125	19.08369632
62	228750	0.00953125	0.610071375	17.4863388
63	204291	0.008512125	0.6185835	19.57991297
64	210747	0.008781125	0.627364625	18.98010411
65	229954	0.009581416667	0.6369460417	17.3947833
66	203336	0.008472333333	0.645418375	19.67187316
67	208529	0.008688708333	0.6541070833	19.18198428
68	227594	0.009483083333	0.6635901667	17.57515576

speed vs. total Foam10



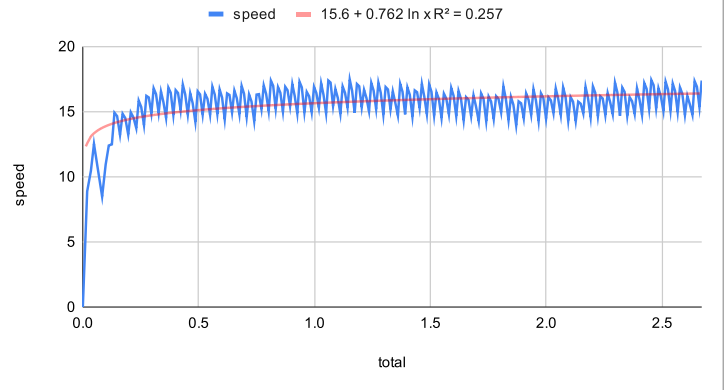
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70	209368	0.008723666667	0.6807634583	19.10511635						
71	229040	0.009543333333	0.6903067917	17.46419839						
72	202942	0.008455916667	0.6987627083	19.71006494						
73	207979	0.008665791667	0.7074285	19.23271099						
74	226757	0.009448208333	0.7168767083	17.64002875						
75	202505	0.008437708333	0.7253144167	19.7525987						
76	208857	0.008702375	0.7340167917	19.15185988						
77	227799	0.009491625	0.7435084167	17.55933959						
78	201534	0.00839725	0.7519056667	19.84776762						
79	206514	0.00860475	0.7605104167	19.36914689						
80	225715	0.009404791667	0.7699152083	17.72146291						
81	200960	0.008373333333	0.7782885417	19.9044586						
82	207679	0.008653291667	0.7869418333	19.26049336						
83	227110	0.009462916667	0.79640475	17.61261063						
84	201164	0.008381833333	0.8047865833	19.88427353						
85	206261	0.008594208333	0.8133807917	19.39290511						
86	225014	0.009375583333	0.822756375	17.77667167						
87	200535	0.008355625	0.831112	19.94664273						
88	207415	0.008642291667	0.8397542917	19.28500832						
89	226382	0.009432583333	0.849186875	17.66924932						
90	200374	0.008348916667	0.8575357917	19.96266981						
91	205337	0.008555708333	0.8660915	19.48017162						
92	224138	0.009339083333	0.8754305833	17.84614836						
93	200159	0.008339958333	0.8837705417	19.98411263						
94	206258	0.008594083333	0.892364625	19.39318717						
95	225955	0.009414791667	0.9017794167	17.70263991						
96	200076	0.0083365	0.9101159167	19.99240289						
97	205725	0.008571875	0.9186877917	19.44343177						
98	223458	0.00931075	0.9279985417	17.90045557						
99	199380	0.0083075	0.9363060417	20.0621928						
100	205880	0.008578333333	0.944884375	19.42879347						
101	225261	0.009385875	0.95427025	17.75717945						
102	199450	0.008310416667	0.9625806667	20.05515167						
103	204448	0.008518666667	0.9710993333	19.56487713						
104	222320	0.009263333333	0.9803626667	17.99208348						
105	198770	0.008282083333	0.98864475	20.12376113						
106	204636	0.0085265	0.99717125	19.54690279						
107	224680	0.009361666667	1.006532917	17.80309774						
108	199131	0.008297125	1.014830042	20.08727923						
109	204418	0.008517416667	1.023347458	19.56774844						
110	222264	0.009261	1.032608458	17.99661664						
111	197612	0.008233833333	1.040842292	20.24168573						
112	204483	0.008520125	1.049362417	19.56152834						
113	223504	0.009312666667	1.058675083	17.89677142						
114	197881	0.008245041667	1.066920125	20.21416912						
115	202491	0.008437125	1.07535725	19.75396437						
116	220317	0.009179875	1.084537125	18.15565753						
117	196401	0.008183375	1.0927205	20.36649508						
118	203252	0.008468833333	1.101189333	19.68000315						
119	222537	0.009272375	1.110461708	17.97453907						
120	197244	0.0082185	1.118680208	20.27945083						
121	202033	0.008418041667	1.12709825	19.79874575						
122	219923	0.009163458333	1.136261708	18.18818405						
123	195795	0.008158125	1.144419833	20.42953089						
124	202336	0.008430666667	1.1528505	19.76909695						
125	221992	0.009249666667	1.162100167	18.01866734						
126	196471	0.008186291667	1.170286458	20.35923877						
127	201401	0.008391708333	1.178678167	19.86087457						
128	219069	0.009127875	1.187806042	18.25908732						
129	195195	0.008133125	1.195939167	20.49232818						
130	202255	0.008427291667	1.204366458	19.77701417						
131	221334	0.00922225	1.213588708	18.07223472						
132	196477	0.008186541667	1.22177525	20.35861704						
133	201399	0.008391625	1.230166875	19.8610718						
134	219225	0.009134375	1.23930125	18.2460942						
135	194936	0.008122333333	1.247423583	20.51955514						
136	201856	0.008410666667	1.25583425	19.81610653						
137	220895	0.009203958333	1.265038208	18.10815093						
138	195760	0.008156666667	1.273194875	20.43318349						

139	200662	0.008360916667	1.281555792	19.9340184						
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141	194553	0.008106375	1.29874275	20.55995024						
142	201296	0.008387333333	1.307130083	19.8712344						
143	220422	0.00918425	1.316314333	18.14700892						
144	196079	0.008169958333	1.324484292	20.39994084						
145	200857	0.008369041667	1.332853333	19.91466566						
146	218636	0.009109833333	1.341963167	18.29524872						
147	194360	0.008098333333	1.3500615	20.58036633						
148	201306	0.00838775	1.35844925	19.87024729						
149	220567	0.009190291667	1.367639542	18.13507914						
150	196116	0.0081715	1.375811042	20.39609211						
151	201286	0.008386916667	1.384197958	19.87222162						
152	218446	0.009101916667	1.393299875	18.31116157						
153	194333	0.008097208333	1.401397083	20.5832257						
154	201285	0.008386875	1.409783958	19.87232034						
155	220231	0.009176291667	1.41896025	18.1627473						
156	196161	0.008173375	1.427133625	20.39141318						
157	200991	0.008374625	1.43550825	19.90138862						
158	218601	0.009108375	1.444616625	18.29817796						
159	194295	0.008095625	1.45271225	20.58725134						
160	201137	0.008380708333	1.461092958	19.88694273						
161	220413	0.009183875	1.470276833	18.14774991						
162	195879	0.008161625	1.478438458	20.42076997						
163	201018	0.00837575	1.486814208	19.89871554						
164	218403	0.009100125	1.495914333	18.31476674						
165	194146	0.008089416667	1.50400375	20.60305131						
166	201373	0.008390541667	1.512394292	19.86363614						
167	219805	0.009158541667	1.521552833	18.19794818						
168	195597	0.008149875	1.529702708	20.4502114						
169	201118	0.008379916667	1.538082625	19.88882149						
170	218119	0.009088291667	1.547170917	18.33861333						
171	193984	0.008082666667	1.555253583	20.62025734						
172	200776	0.008365666667	1.56361925	19.92269992						
173	219764	0.009156833333	1.572776083	18.20134326						
174	195579	0.008149125	1.580925208	20.45209353						
175	200880	0.00837	1.589295208	19.9123855						
176	218000	0.009083333333	1.598378542	18.34862385						
177	193971	0.008082125	1.606460667	20.62163932						
178	200977	0.008374041667	1.614834708	19.90277494						
179	219417	0.009142375	1.623977083	18.23012802						
180	195654	0.00815225	1.632129333	20.44425363						
181	201218	0.008384083333	1.640513417	19.87893727						
182	218005	0.009083541667	1.649596958	18.34820302						
183	193477	0.008061541667	1.6576585	20.67429203						
184	200042	0.008335083333	1.665993583	19.99580088						
185	218713	0.009113041667	1.675106625	18.28880771						
186	194766	0.00811525	1.683221875	20.53746547						
187	201321	0.008388375	1.69161025	19.8687668						
188	218583	0.009107625	1.700717875	18.29968479						
189	194211	0.008092125	1.70881	20.59615573						
190	201119	0.008379958333	1.717189958	19.8887226						
191	219479	0.009144958333	1.726334917	18.22497824						
192	195701	0.008154208333	1.734489125	20.43934369						
193	201440	0.008393333333	1.742882458	19.85702939						
194	218860	0.009119166667	1.752001625	18.27652381						
195	194011	0.008083791667	1.760085417	20.61738767						
196	200026	0.008334416667	1.768419833	19.99740034						
197	219059	0.009127458333	1.777547292	18.25992084						
198	194401	0.008100041667	1.785647333	20.57602584						
199	200491	0.008353791667	1.794001125	19.95102025						
200	218429	0.009101208333	1.803102333	18.3125867						
201	193845	0.008076875	1.811179208	20.63504346						
202	200220	0.0083425	1.819521708	19.97802417						
203	218743	0.009114291667	1.828636	18.28629945						
204	194318	0.008096583333	1.836732583	20.58481458						
205	200103	0.008337625	1.845070208	19.9897053						
206	218113	0.009088041667	1.85415825	18.3391178						
207	193696	0.008070666667	1.862228917	20.6509169						
208	199407	0.008308625	1.870537542	20.05947635						

209	218243	0.009093458333	1.879631	18.3281938						
210	193799	0.008074958333	1.887705958	20.63994138						
211	200102	0.008337583333	1.896043542	19.9898052						
212	218373	0.009098875	1.905142417	18.31728281						
213	193936	0.008080666667	1.913223083	20.62536094						
214	199879	0.008328291667	1.921551375	20.01210732						
215	218119	0.009088291667	1.930639667	18.33861333						
216	193953	0.008081375	1.938721042	20.62355313						
217	199956	0.0083315	1.947052542	20.00440097						
218	217346	0.009056083333	1.956108625	18.40383536						
219	193389	0.008057875	1.9641665	20.68369969						
220	198726	0.00828025	1.97244675	20.12821674						
221	217520	0.009063333333	1.981510083	18.38911364						
222	193698	0.00807075	1.989580833	20.65070367						
223	199567	0.008315291667	1.997896125	20.04339395						
224	218149	0.009089541667	2.006985667	18.33609139						
225	193827	0.008076125	2.015061792	20.63695976						
226	199552	0.008314666667	2.023376458	20.04490058						
227	216995	0.009041458333	2.032417917	18.43360446						
228	193430	0.008059583333	2.0404775	20.67931551						
229	198950	0.008289583333	2.048767083	20.10555416						
230	217676	0.009069833333	2.057836917	18.37593488						
231	193257	0.008052375	2.065889292	20.69782725						
232	198696	0.008279	2.074168292	20.13125579						
233	216170	0.009007083333	2.083175375	18.50395522						
234	192678	0.00802825	2.091203625	20.7600245						
235	199002	0.00829175	2.099495375	20.1003005						
236	217066	0.009044416667	2.108539792	18.42757502						
237	193412	0.008058833333	2.116598625	20.68124005						
238	198702	0.00827925	2.124877875	20.1306479						
239	215594	0.008983083333	2.133860958	18.55339202						
240	192143	0.008005958333	2.141866917	20.81782839						
241	198550	0.008272916667	2.150139833	20.14605893						
242	217010	0.009042083333	2.159181917	18.43233031						
243	192964	0.008040166667	2.167222083	20.7292552						
244	198427	0.008267791667	2.175489875	20.15854697						
245	215159	0.008964958333	2.184454833	18.59090254						
246	192248	0.008010333333	2.192465167	20.80645832						
247	197994	0.00824975	2.200714917	20.2026324						
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249	192471	0.008019625	2.217748833	20.78235163						

Sample	enc_count	Delta	total	speed
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2	383154	0.01596475	0.03473441667	10.43966656
3	319715	0.01332145833	0.048055875	12.51114274
4	373036	0.01554316667	0.06359904167	10.72282568
5	471711	0.019654625	0.08325366667	8.479768333
6	365972	0.01524883333	0.0985025	10.92979791
7	322767	0.013448625	0.111951125	12.39284066
8	320442	0.01335175	0.125302875	12.48275819
9	268302	0.01117925	0.136482125	14.90857318
10	273013	0.01137554167	0.1478576667	14.65131697
11	302741	0.01261420833	0.160471875	13.21261408
12	269713	0.01123804167	0.1717099167	14.83057917
13	275958	0.01149825	0.1832081667	14.49495938
14	302113	0.01258804167	0.1957962083	13.24007904
15	267756	0.0111565	0.2069527083	14.93897429
16	275028	0.0114595	0.2184122083	14.5439737
17	291329	0.01213870833	0.2305509167	13.73018134
18	252527	0.01052195833	0.241072875	15.83989039
19	260596	0.01085816667	0.2519310417	15.34942977
20	286379	0.01193245833	0.2638635	13.9675046
21	246820	0.01028416667	0.2741476667	16.20614213
22	248706	0.01036275	0.2845104167	16.08324689
23	269225	0.01121770833	0.295728125	14.85746123
24	238378	0.009932416667	0.3056605417	16.78007199
25	244847	0.01020195833	0.3158625	16.33673274
26	268532	0.01118883333	0.3270513333	14.89580385
27	241952	0.01008133333	0.3371326667	16.53220473
28	254407	0.01060029167	0.3477329583	15.72283781
29	275524	0.01148016667	0.359213125	14.51779155
30	237620	0.009900833333	0.3691139583	16.83359987
31	243285	0.010136875	0.3792508333	16.44162197
32	271307	0.01130445833	0.3905552917	14.74344562
33	240356	0.01001483333	0.400570125	16.64198106
34	243536	0.01014733333	0.4107174583	16.42467643
35	264597	0.011024875	0.4217423333	15.11732937
36	234443	0.009768458333	0.4315107917	17.06171649
37	245115	0.010213125	0.4417239167	16.31887073
38	270761	0.01128170833	0.453005625	14.77317634
39	243849	0.010160375	0.463166	16.40359403
40	255597	0.010649875	0.473815875	15.64963595
41	281415	0.011725625	0.4855415	14.21388341
42	241649	0.01006870833	0.4956102083	16.55293421
43	245178	0.01021575	0.5058259583	16.3146775
44	270879	0.011286625	0.5171125833	14.76674087
45	244477	0.01018654167	0.527299125	16.36145732
46	250332	0.0104305	0.537729625	15.97878018
47	271069	0.01129454167	0.5490241667	14.75639044
48	236536	0.009855666667	0.5588798333	16.91074509
49	245216	0.01021733333	0.5690971667	16.31214929
50	269942	0.01124758333	0.58034475	14.81799794
51	239639	0.009984958333	0.5903297083	16.69177388
52	248671	0.01036129167	0.600691	16.08551057
53	277682	0.01157008333	0.6122610833	14.40496683
54	244018	0.01016741667	0.6224285	16.39223336
55	245754	0.01023975	0.63266825	16.27643904
56	267748	0.01115616667	0.6438244167	14.93942065
57	240851	0.01003545833	0.653859875	16.60777825
58	249621	0.010400875	0.66426075	16.02429283
59	270335	0.01126395833	0.6755247083	14.79645625
60	235815	0.009825625	0.6853503333	16.96244938
61	244320	0.01018	0.6955303333	16.37197119
62	274140	0.0114225	0.7069528333	14.59108485
63	245210	0.01021708333	0.7171699167	16.31254843
64	253593	0.010566375	0.7277362917	15.77330605
65	280454	0.01168558333	0.739421875	14.26258852
66	245356	0.01022316667	0.7496450417	16.30284159
67	244874	0.01020308333	0.759848125	16.33493143
68	263486	0.01097858333	0.7708267083	15.18107224

speed vs. total Table10



69	235296	0.009804	0.7806307083	16.999864						
70	244571	0.01019045833	0.7908211667	16.35516885						
71	266018	0.01108408333	0.80190525	15.03657647						
72	230313	0.009596375	0.811501625	17.36766922						
73	235688	0.009820333333	0.8213219583	16.97158956						
74	262984	0.01095766667	0.832279625	15.2100508						
75	237077	0.009878208333	0.8421578333	16.87215546						
76	243289	0.01013704167	0.852294875	16.44135164						
77	266747	0.01111445833	0.8634093333	14.99548261						
78	236651	0.009860458333	0.8732697917	16.90252735						
79	240431	0.01001795833	0.88328775	16.63678977						
80	259555	0.01081479167	0.8941025417	15.41099189						
81	233845	0.009743541667	0.9038460833	17.10534756						
82	246847	0.01028529167	0.914131375	16.20436951						
83	269107	0.01121279167	0.9253441667	14.86397604						
84	231397	0.009641541667	0.9349857083	17.28630881						
85	237311	0.009887958333	0.9448736667	16.85551871						
86	267750	0.01115625	0.9560299167	14.93930906						
87	242341	0.01009754167	0.9661274583	16.50566763						
88	247349	0.01030620833	0.9764336667	16.1714824						
89	267494	0.01114558333	0.98757925	14.95360644						
90	236795	0.009866458333	0.9974457083	16.89224857						
91	243571	0.01014879167	1.0075945	16.42231629						
92	261344	0.01088933333	1.018483833	15.30549773						
93	233018	0.009709083333	1.028192917	17.16605584						
94	245551	0.01023129167	1.038424208	16.28989497						
95	268977	0.011207375	1.049631583	14.87115999						
96	230138	0.009589083333	1.059220667	17.38087582						
97	232219	0.009675791667	1.068896458	17.22511939						
98	259167	0.010798625	1.079695083	15.43406375						
99	239059	0.009960791667	1.089655875	16.73227111						
100	249142	0.01038091667	1.100036792	16.05510111						
101	269715	0.011238125	1.111274917	14.8304692						
102	236314	0.009846416667	1.121121333	16.92663152						
103	243410	0.01014208333	1.131263417	16.43317859						
104	261191	0.01088295833	1.142146375	15.31446336						
105	229191	0.009549625	1.151696	17.4526923						
106	240852	0.0100355	1.1617315	16.6077093						
107	268438	0.01118491667	1.172916417	14.90101997						
108	233712	0.009738	1.182654417	17.11508181						
109	236102	0.009837583333	1.192492	16.94183023						
110	260919	0.010871625	1.203363625	15.33042822						
111	240019	0.01000079167	1.213364417	16.66534733						
112	249340	0.01038916667	1.223753583	16.04235181						
113	266126	0.01108858333	1.234842167	15.03047429						
114	232499	0.009687458333	1.244529625	17.20437507						
115	240756	0.0100315	1.254561125	16.61433152						
116	263169	0.010965375	1.2655265	15.19935859						
117	232375	0.009682291667	1.275208792	17.21355568						
118	243199	0.01013329167	1.285342083	16.44743605						
119	270862	0.01128591667	1.296628	14.76766767						
120	236921	0.009871708333	1.306499708	16.88326489						
121	239559	0.009981625	1.316481333	16.69734804						
122	263641	0.01098504167	1.327466375	15.17214697						
123	241766	0.01007358333	1.337539958	16.5449236						
124	255038	0.01062658333	1.348166542	15.6839373						
125	272126	0.01133858333	1.359505125	14.69907322						
126	233572	0.009732166667	1.369237292	17.12534037						
127	242122	0.01008841667	1.379325708	16.52059705						
128	270551	0.01127295833	1.390598667	14.78464319						
129	237377	0.009890708333	1.400489375	16.85083222						
130	245562	0.01023175	1.410721125	16.28916526						
131	273540	0.0113975	1.422118625	14.62308986						
132	240623	0.01002595833	1.432144583	16.62351479						
133	242614	0.01010891667	1.4422535	16.48709473						
134	261991	0.01091629167	1.453169792	15.26770004						
135	233639	0.009734958333	1.46290475	17.12042938						
136	247673	0.01031970833	1.473224458	16.15032725						
137	270085	0.01125354167	1.484478	14.81015236						
138	234115	0.009754791667	1.494232792	17.08562031						

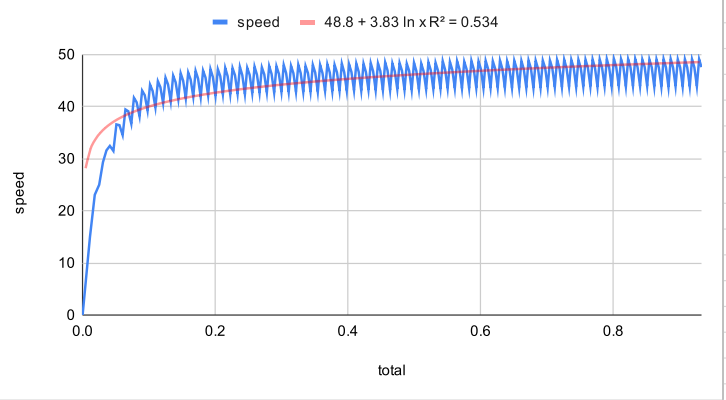
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140	272116	0.01133816667	1.515661958	14.6996134						
141	242939	0.01012245833	1.525784417	16.46503855						
142	250433	0.01043470833	1.536219125	15.97233591						
143	275668	0.01148616667	1.547705292	14.51020793						
144	244293	0.010178875	1.557884167	16.37378067						
145	250131	0.010422125	1.568306292	15.99162039						
146	270325	0.01126354167	1.579569833	14.79700361						
147	237889	0.009912041667	1.589481875	16.81456478						
148	246791	0.01028295833	1.599764833	16.20804648						
149	272879	0.01136995833	1.611134792	14.65851165						
150	241299	0.010054125	1.621188917	16.57694396						
151	250469	0.01043620833	1.631625125	15.9700402						
152	279193	0.01163304167	1.643258167	14.32700677						
153	248321	0.01034670833	1.653604875	16.10818255						
154	251555	0.01048145833	1.664086333	15.90109519						
155	273048	0.011377	1.675463333	14.64943893						
156	246364	0.01026516667	1.6857285	16.2361384						
157	260080	0.01083666667	1.696565167	15.37988311						
158	280429	0.01168454167	1.708249708	14.26386001						
159	243970	0.01016541667	1.718415125	16.39545846						
160	250406	0.01043358333	1.728848708	15.97405813						
161	280484	0.01168683333	1.740535542	14.26106302						
162	247550	0.01031458333	1.750850125	16.15835185						
163	253513	0.01056304167	1.761413167	15.77828356						
164	277153	0.01154804167	1.772961208	14.43246149						
165	247200	0.0103	1.783261208	16.18122977						
166	250637	0.01044320833	1.793704417	15.95933561						
167	267666	0.01115275	1.804857167	14.94399737						
168	236383	0.009849291667	1.814706458	16.92169065						
169	250222	0.01042591667	1.825132375	15.98580461						
170	278945	0.01162270833	1.836755083	14.33974439						
171	247882	0.01032841667	1.8470835	16.13671021						
172	257797	0.01074154167	1.857825042	15.51608436						
173	286876	0.01195316667	1.869778208	13.94330652						
174	253478	0.01056158333	1.880339792	15.78046221						
175	255845	0.01066020833	1.891	15.63446618						
176	276109	0.01150454167	1.902504542	14.4870323						
177	244014	0.01016725	1.912671792	16.39250207						
178	251567	0.01048195833	1.92315375	15.90033669						
179	271025	0.01129270833	1.934446458	14.75878609						
180	239363	0.009973458333	1.944419917	16.7110205						
181	252167	0.01050695833	1.954926875	15.86250382						
182	280299	0.011679125	1.966606	14.27047546						
183	243910	0.01016291667	1.976768917	16.39949162						
184	249557	0.01039820833	1.987167125	16.02840233						
185	276586	0.01152441667	1.998691542	14.46204797						
186	248374	0.01034891667	2.009040458	16.10474526						
187	252148	0.01050616667	2.019546625	15.8636991						
188	268839	0.011201625	2.03074825	14.87879363						
189	238568	0.009940333333	2.040688583	16.76670802						
190	250322	0.01043008333	2.051118667	15.97941851						
191	271364	0.01130683333	2.0624255	14.74034876						
192	237366	0.00989025	2.07231575	16.85161312						
193	247809	0.010325375	2.082641125	16.14146379						
194	279692	0.01165383333	2.094294958	14.30144588						
195	248309	0.01034620833	2.104641167	16.10896101						
196	253873	0.01057804167	2.115219208	15.75590945						
197	280431	0.011684625	2.126903833	14.26375829						
198	253809	0.010575375	2.137479208	15.75988243						
199	256364	0.01068183333	2.148161042	15.60281475						
200	269207	0.01121695833	2.159378	14.85845465						
201	236820	0.0098675	2.1692455	16.89046533						
202	249500	0.01039583333	2.179641333	16.03206413						
203	274616	0.01144233333	2.191083667	14.56579369						
204	236293	0.009845541667	2.200929208	16.92813583						
205	243378	0.01014075	2.211069958	16.43533927						
206	273056	0.01137733333	2.222447292	14.64900973						
207	247238	0.01030158333	2.232748875	16.17874275						
208	249976	0.01041566667	2.243164542	16.00153615						



209	271650	0.01131875	2.254483292	14.72482974						
210	243608	0.01015033333	2.264633625	16.41982201						
211	254408	0.01060033333	2.275233958	15.72277601						
212	270237	0.011259875	2.286493833	14.8018221						
213	232499	0.009687458333	2.296181292	17.20437507						
214	242693	0.01011220833	2.3062935	16.48172794						
215	272548	0.01135616667	2.317649667	14.6763139						
216	237502	0.009895916667	2.327545583	16.84196344						
217	242363	0.01009845833	2.337644042	16.50416937						
218	272519	0.01135495833	2.348999	14.67787567						
219	248393	0.01034970833	2.359348708	16.10351338						
220	253334	0.01055558333	2.369904292	15.78943213						
221	269788	0.01124116667	2.381145458	14.82645633						
222	238350	0.00993125	2.391076708	16.78204321						
223	250780	0.01044916667	2.401525875	15.95023527						
224	271166	0.01129858333	2.412824458	14.75111187						
225	232743	0.009697625	2.422522083	17.18633858						
226	238814	0.009950583333	2.432472667	16.7494368						
227	263009	0.01095870833	2.443431375	15.20860503						
228	229705	0.009571041667	2.453002417	17.41363923						
229	234981	0.009790875	2.462793292	17.0226529						
230	262322	0.01093008333	2.473723375	15.24843513						
231	238166	0.009923583333	2.483646958	16.79500852						
232	247349	0.01030620833	2.493953167	16.1714824						
233	265655	0.01106895833	2.505022125	15.05712296						
234	231384	0.009641	2.514663125	17.28728002						
235	239393	0.009974708333	2.524637833	16.70892633						
236	265058	0.01104408333	2.535681917	15.09103668						
237	233357	0.009723208333	2.545405125	17.14111854						
238	241325	0.01005520833	2.555460333	16.57515798						
239	267263	0.01113595833	2.566596292	14.96653109						
240	237365	0.009890208333	2.5764865	16.85168412						
241	244329	0.010180375	2.586666875	16.37136811						
242	271323	0.011305125	2.597972	14.74257619						
243	246850	0.01028541667	2.608257417	16.20417257						
244	257057	0.01071070833	2.618968125	15.56075112						
245	270894	0.01128725	2.630255375	14.7659232						
246	230861	0.009619208333	2.639874583	17.32644318						
247	236603	0.009858458333	2.649733042	16.90595639						
248	260694	0.01086225	2.660595292	15.34365962						
249	230138	0.009589083333	2.670184375	17.38087582						

Sample	enc_count	Delta	total	speed
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1	266715	0.0111113125	0.0111113125	14.99728174
2	173467	0.007227791667	0.01834091667	23.05914093
3	160070	0.006669583333	0.0250105	24.98906728
4	136418	0.005684083333	0.03069458333	29.32164377
5	126615	0.005275625	0.03597020833	31.59183351
6	123281	0.005136708333	0.04110691667	32.44620014
7	127068	0.0052945	0.04640141667	31.47920798
8	109379	0.004557458333	0.050958875	36.57009115
9	109820	0.004575833333	0.05553470833	36.42323803
10	115872	0.004828	0.06036270833	34.52085059
11	101422	0.004225916667	0.064588625	39.43917493
12	102322	0.004263416667	0.06885204167	39.09227732
13	108984	0.004541	0.07339304167	36.70263525
14	95987	0.003999458333	0.0773925	41.67230979
15	98017	0.004084041667	0.08147654167	40.80924738
16	104919	0.004371625	0.08584816667	38.12464854
17	92927	0.003871958333	0.089720125	43.04454034
18	94838	0.003951583333	0.09367170833	42.17718636
19	101907	0.004246125	0.09791783333	39.25147438
20	90536	0.003772333333	0.1016901667	44.18132014
21	93069	0.003877875	0.1055680417	42.97886514
22	100387	0.004182791667	0.1097508333	39.84579677
23	89198	0.003716583333	0.1134674167	44.8440548
24	91526	0.003813583333	0.117281	43.70342853
25	98404	0.004100166667	0.1213811667	40.64875412
26	87882	0.00366175	0.1250429167	45.51557771
27	90438	0.00376825	0.1288111667	44.22919569
28	97596	0.0040665	0.1328776667	40.98528628
29	87106	0.003629416667	0.1365070833	45.92106169
30	89585	0.003732708333	0.1402397917	44.65033209
31	96553	0.004023041667	0.1442628333	41.42802399
32	86251	0.003593791667	0.147856625	46.3762739
33	88990	0.003707916667	0.1515645417	44.94887066
34	96224	0.004009333333	0.155573875	41.56967077
35	85996	0.003583166667	0.1591570417	46.51379134
36	88513	0.003688041667	0.1628450833	45.19110187
37	95483	0.003978458333	0.1668235417	41.89227402
38	85430	0.003559583333	0.170383125	46.8219595
39	88200	0.003675	0.174058125	45.35147392
40	95633	0.003984708333	0.1780428333	41.82656614
41	85314	0.00355475	0.1815975833	46.88562252
42	87773	0.003657208333	0.1852547917	45.57210076
43	94899	0.003954125	0.1892089167	42.15007534
44	84791	0.003532958333	0.192741875	47.17481808
45	87626	0.003651083333	0.1963929583	45.6485518
46	94994	0.003958083333	0.2003510417	42.10792261
47	84848	0.003535333333	0.203886375	47.14312653
48	87286	0.003636916667	0.2075232917	45.82636391
49	94436	0.003934833333	0.211458125	42.35672837
50	84376	0.003515666667	0.2149737917	47.40684555
51	87266	0.003636083333	0.218609875	45.83686659
52	94491	0.003937125	0.222547	42.33207395
53	84457	0.003519041667	0.2260660417	47.36137916
54	86945	0.003622708333	0.22968875	46.00609581
55	94174	0.003923916667	0.2336126667	42.47456835
56	84041	0.003501708333	0.237114375	47.59581633
57	86943	0.003622625	0.240737	46.00715411
58	94358	0.003931583333	0.2446685833	42.39174209
59	84359	0.003514958333	0.2481835417	47.41639896
60	86797	0.003616541667	0.2518000833	46.08454209
61	93933	0.003913875	0.2557139583	42.58354359
62	83945	0.003497708333	0.2592116667	47.65024719
63	86775	0.003615625	0.2628272917	46.09622587
64	93833	0.003909708333	0.266737	42.62892586
65	84214	0.003508916667	0.2702459167	47.49804071
66	86638	0.003609916667	0.2738558333	46.16911748
67	93649	0.003902041667	0.277757875	42.71268246
68	83729	0.003488708333	0.2812465833	47.77317297

speed vs. total Foam20



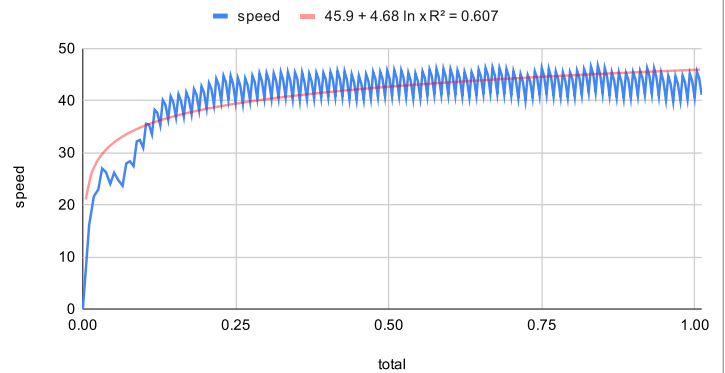
69	86471	0.003602958333	0.2848495417	46.25828312						
70	93698	0.003904083333	0.288753625	42.69034558						
71	83813	0.003492208333	0.2922458333	47.72529321						
72	86406	0.00360025	0.2958460833	46.2930815						
73	93394	0.003891416667	0.2997375	42.82930381						
74	83394	0.00347475	0.30321225	47.96508142						
75	86203	0.003591791667	0.3068040417	46.40209737						
76	93473	0.003894708333	0.31069875	42.79310603						
77	83683	0.003486791667	0.3141855417	47.79943358						
78	86219	0.003592458333	0.317778	46.39348635						
79	93366	0.00389025	0.32166825	42.84214811						
80	83309	0.003471208333	0.3251394583	48.01402009						
81	86176	0.003590666667	0.328730125	46.41663572						
82	93449	0.003893708333	0.3326238333	42.80409635						
83	83740	0.003489166667	0.336113	47.76689754						
84	86169	0.003590375	0.339703375	46.42040641						
85	93301	0.003887541667	0.3435909167	42.87199494						
86	83360	0.003473333333	0.34706425	47.98464491						
87	86018	0.003584083333	0.3506483333	46.50189495						
88	93385	0.003891041667	0.354539375	42.83343149						
89	83359	0.003473291667	0.3580126667	47.98522055						
90	86190	0.00359125	0.3616039167	46.40909618						
91	92959	0.003873291667	0.3654772083	43.02972278						
92	83151	0.003464625	0.3689418333	48.1052543						
93	85913	0.003579708333	0.3725215417	46.55872802						
94	93156	0.0038815	0.3764030417	42.93872644						
95	83349	0.003472875	0.3798759167	47.9909777						
96	85930	0.003580416667	0.3834563333	46.54951705						
97	92963	0.003873458333	0.3873297917	43.0278713						
98	82929	0.003455375	0.3907851667	48.23403152						
99	85886	0.003578583333	0.39436375	46.57336469						
100	92929	0.003872041667	0.3982357917	43.04361394						
101	83166	0.00346525	0.4017010417	48.09657793						
102	85808	0.003575333333	0.405276375	46.61570017						
103	92765	0.003865208333	0.4091415833	43.1197111						
104	82917	0.003454875	0.4125964583	48.2410121						
105	85687	0.003570291667	0.41616675	46.68152695						
106	92909	0.003871208333	0.4200379583	43.0528797						
107	82967	0.003456958333	0.4234949167	48.21193969						
108	85803	0.003575125	0.4270700417	46.61841661						
109	92523	0.003855125	0.4309251667	43.23249354						
110	82759	0.003448291667	0.4343734583	48.33311181						
111	85536	0.003564	0.4379374583	46.76393565						
112	92751	0.003864625	0.4418020833	43.12621966						
113	82870	0.003452916667	0.445255	48.26837215						
114	85461	0.003560875	0.448815875	46.80497537						
115	92674	0.003861416667	0.4526772917	43.16205192						
116	82543	0.003439291667	0.4561165833	48.45959076						
117	85234	0.003551416667	0.459668	46.92962902						
118	92718	0.00386325	0.46353125	43.14156906						
119	82850	0.003452083333	0.4669833333	48.28002414						
120	85509	0.003562875	0.4705462083	46.77870166						
121	92295	0.003845625	0.4743918333	43.33929249						
122	82733	0.003447208333	0.4778390417	48.34830116						
123	85303	0.003554291667	0.4813933333	46.89166852						
124	92529	0.003855375	0.4852487083	43.22969015						
125	82976	0.003457333333	0.4887060417	48.20671037						
126	85389	0.003557875	0.4922639167	46.84444132						
127	92599	0.003858291667	0.4961222083	43.19701077						
128	82653	0.003443875	0.4995660833	48.39509758						
129	85426	0.003559416667	0.5031255	46.8241519						
130	92383	0.003849291667	0.5069747917	43.29800937						
131	82903	0.003454291667	0.5104290833	48.24915866						
132	85516	0.003563166667	0.51399225	46.77487254						
133	92312	0.003846333333	0.5178385833	43.33131121						
134	82498	0.003437416667	0.521276	48.4860239						
135	85141	0.003547541667	0.5248235417	46.98089052						
136	92184	0.003841	0.5286645417	43.39147791						
137	82665	0.003444375	0.5321089167	48.38807234						
138	85265	0.003552708333	0.535661625	46.9125667						

139	92055	0.003835625	0.53949725	43.45228396						
140	82130	0.003422083333	0.5429193333	48.7032753						
141	84979	0.003540791667	0.546460125	47.0704527						
142	91925	0.003830208333	0.5502903333	43.51373402						
143	82385	0.003432708333	0.5537230417	48.55252777						
144	84994	0.003541416667	0.5572644583	47.06214556						
145	91909	0.003829541667	0.561094	43.52130912						
146	82112	0.003421333333	0.5645153333	48.71395168						
147	84771	0.003532125	0.5680474583	47.18594802						
148	91970	0.003832083333	0.5718795417	43.49244319						
149	82303	0.003429291667	0.5753088333	48.60090155						
150	84828	0.0035345	0.5788433333	47.15424152						
151	91928	0.003830333333	0.5826736667	43.51231398						
152	81986	0.003416083333	0.58608975	48.7888176						
153	84784	0.003532666667	0.5896224167	47.17871296						
154	91811	0.003825458333	0.593447875	43.56776421						
155	82231	0.003426291667	0.5968741667	48.64345563						
156	84790	0.003532916667	0.6004070833	47.17537445						
157	91819	0.003825791667	0.604232875	43.56396824						
158	82019	0.003417458333	0.6076503333	48.76918763						
159	84666	0.00352775	0.6111780833	47.24446649						
160	91718	0.003821583333	0.6149996667	43.61194095						
161	82149	0.003422875	0.6184225417	48.69201086						
162	84643	0.003526791667	0.6219493333	47.25730421						
163	91657	0.003819041667	0.625768375	43.64096577						
164	81951	0.003414625	0.629183	48.80965455						
165	84614	0.003525583333	0.6327085833	47.27350084						
166	91699	0.003820791667	0.636529375	43.62097733						
167	82100	0.003420833333	0.6399502083	48.72107186						
168	84805	0.003533541667	0.64348375	47.16703025						
169	91768	0.003823666667	0.6473074167	43.58817889						
170	81967	0.003415291667	0.6507227083	48.80012688						
171	84531	0.003522125	0.6542448333	47.31991814						
172	91742	0.003822583333	0.6580674167	43.60053193						
173	82027	0.003417791667	0.6614852083	48.76443122						
174	84761	0.003531708333	0.6650169167	47.19151497						
175	91697	0.003820708333	0.668837625	43.62192874						
176	81885	0.003411875	0.6722495	48.84899554						
177	84500	0.003520833333	0.6757703333	47.33727811						
178	91758	0.00382325	0.6795935833	43.59292923						
179	81961	0.003415041667	0.683008625	48.80369932						
180	84606	0.00352525	0.686533875	47.27797083						
181	91679	0.003819958333	0.6903538333	43.63049335						
182	81925	0.003413541667	0.693767375	48.82514495						
183	84368	0.003515333333	0.6972827083	47.41134079						
184	91487	0.003811958333	0.7010946667	43.72205887						
185	81932	0.003413833333	0.7045085	48.82097349						
186	84419	0.003517458333	0.7080259583	47.38269821						
187	91450	0.003810416667	0.711836375	43.7397485						
188	81694	0.003403916667	0.7152402917	48.96320415						
189	84291	0.003512125	0.7187524167	47.45465115						
190	91447	0.003810291667	0.7225627083	43.74118342						
191	81650	0.003402083333	0.7259647917	48.98958971						
192	84421	0.003517541667	0.7294823333	47.38157567						
193	91303	0.003804291667	0.733286625	43.81017053						
194	81677	0.003403208333	0.7366898333	48.9733952						
195	84228	0.0035095	0.7401993333	47.49014579						
196	91386	0.00380775	0.7440070833	43.77038058						
197	81691	0.003403791667	0.747410875	48.96500226						
198	84374	0.003515583333	0.7509264583	47.40796928						
199	91235	0.003801458333	0.7547279167	43.84282348						
200	81659	0.003402458333	0.758130375	48.98419035						
201	84255	0.003510625	0.761641	47.4749273						
202	91217	0.003800708333	0.7654417083	43.85147505						
203	81560	0.003398333333	0.7688400417	49.04364885						
204	84310	0.003512916667	0.7723529583	47.44395683						
205	91334	0.003805583333	0.7761585417	43.79530076						
206	81543	0.003397625	0.7795561667	49.05387342						
207	84301	0.003512541667	0.7830687083	47.44902196						
208	91083	0.003795125	0.7868638333	43.91598871						

209	81462	0.00339425	0.7902580833	49.10264909						
210	84263	0.003510958333	0.7937690417	47.47041999						
211	91185	0.003799375	0.7975684167	43.86686407						
212	81440	0.003393333333	0.80096175	49.11591356						
213	84096	0.003504	0.80446575	47.56468798						
214	91075	0.003794791667	0.8082605417	43.91984628						
215	81489	0.003395375	0.8116559167	49.08637976						
216	84030	0.00350125	0.8151571667	47.60204689						
217	91199	0.003799958333	0.818957125	43.86013005						
218	81495	0.003395625	0.82235275	49.08276581						
219	84118	0.003504916667	0.8258576667	47.55224803						
220	91027	0.003792791667	0.8296504583	43.94300592						
221	81410	0.003392083333	0.8330425417	49.13401302						
222	84110	0.003504583333	0.836547125	47.5567709						
223	91074	0.00379475	0.840341875	43.92032852						
224	81612	0.0034005	0.843742375	49.01240014						
225	84052	0.003502166667	0.8472445417	47.5895874						
226	90993	0.003791375	0.8510359167	43.95942545						
227	81615	0.003400625	0.8544365417	49.01059854						
228	84155	0.003506458333	0.857943	47.53134098						
229	91249	0.003802041667	0.8617450417	43.83609683						
230	81587	0.003399458333	0.8651445	49.02741858						
231	84285	0.003511875	0.868656375	47.45802931						
232	91247	0.003801958333	0.8724583333	43.83705766						
233	81469	0.003394541667	0.875852875	49.09843008						
234	84185	0.003507708333	0.8793605833	47.5144028						
235	91413	0.003808875	0.8831694583	43.75745244						
236	81437	0.003393208333	0.8865626667	49.1177229						
237	84199	0.003508291667	0.8900709583	47.50650245						
238	91096	0.003795666667	0.893866625	43.90972161						
239	81563	0.003398458333	0.8972650833	49.04184495						
240	84200	0.003508333333	0.9007734167	47.50593824						
241	91229	0.003801208333	0.904574625	43.84570696						
242	81549	0.003397875	0.9079725	49.05026426						
243	84255	0.003510625	0.911483125	47.4749273						
244	91253	0.003802208333	0.9152853333	43.83417531						
245	81538	0.003397416667	0.91868275	49.05688145						
246	84197	0.003508208333	0.9221909583	47.50763091						
247	91069	0.003794541667	0.9259855	43.9227399						
248	81537	0.003397375	0.929382875	49.05748311						
249	84104	0.003504333333	0.9328872083	47.56016361						

Sample	enc_count	Delta	total	speed
0	0	0	0	0
1	247991	0.01033295833	0.01033295833	16.12961761
2	185045	0.007710208333	0.01804316667	21.61636359
3	174282	0.00726175	0.02530491667	22.9513088
4	148389	0.006182875	0.03148779167	26.956176
5	152498	0.006354083333	0.037841875	26.22985219
6	166596	0.0069415	0.044783375	24.01018032
7	153004	0.006375166667	0.05115854167	26.14310737
8	161788	0.006741166667	0.05789970833	24.72371251
9	169239	0.007051625	0.06495133333	23.63521411
10	143272	0.005969666667	0.070921	27.91892345
11	141139	0.005880791667	0.07680179167	28.34085547
12	145844	0.006076833333	0.082878625	27.42656537
13	124429	0.005184541667	0.08806316667	32.1468468
14	123370	0.005140416667	0.09320358333	32.42279322
15	129312	0.005388	0.09859158333	30.93293739
16	112499	0.004687458333	0.1032790417	35.55587161
17	112993	0.004708041667	0.1079870833	35.40042304
18	119358	0.00497325	0.1129603333	33.51262588
19	104658	0.00436075	0.1173210833	38.2197252
20	106276	0.004428166667	0.12174925	37.63784862
21	113431	0.004726291667	0.1264755417	35.26372861
22	99797	0.004158208333	0.13063375	40.08136517
23	102008	0.004250333333	0.1348840833	39.21261078
24	109937	0.004580708333	0.1394647917	36.38447474
25	98040	0.004085	0.1435497917	40.7996736
26	100823	0.004200958333	0.14775075	39.6734872
27	108697	0.004529041667	0.1522797917	36.79954369
28	97150	0.004047916667	0.1563277083	41.17344313
29	100368	0.004182	0.1605097083	39.85333971
30	108205	0.004508541667	0.16501825	36.96686844
31	96316	0.004013166667	0.1690314167	41.52996387
32	99175	0.004132291667	0.1731637083	40.33274515
33	106864	0.004452666667	0.177616375	37.43075311
34	94808	0.003950333333	0.1815667083	42.19053244
35	97177	0.004049041667	0.18561575	41.16200335
36	104930	0.004372083333	0.1899878333	38.12065186
37	93686	0.003903583333	0.1938914167	42.69581368
38	96305	0.004012708333	0.197904125	41.53470744
39	103740	0.0043225	0.202226625	38.55793329
40	92294	0.003845583333	0.2060722083	43.33976206
41	94696	0.003945666667	0.210017875	42.24043254
42	102079	0.004253291667	0.2142711667	39.18533685
43	90577	0.003774041667	0.2180452083	44.16132131
44	92984	0.003874333333	0.2219195417	43.01815366
45	100353	0.004181375	0.2261009167	39.85929668
46	89374	0.003723916667	0.2298248333	44.75574552
47	91878	0.00382825	0.2336530833	43.53599338
48	99584	0.004149333333	0.2378024167	40.16709512
49	89484	0.0037285	0.2415309167	44.70072862
50	92640	0.00386	0.2453909167	43.17789292
51	100632	0.004193	0.2495839167	39.74878766
52	90332	0.003763833333	0.25334775	44.2810964
53	93355	0.003889791667	0.2572375417	42.84719619
54	101425	0.004226041667	0.2614635833	39.43800838
55	90445	0.003768541667	0.265232125	44.22577257
56	93041	0.003876708333	0.2691088333	42.99179931
57	100237	0.004176541667	0.273285375	39.90542414
58	89374	0.003723916667	0.2770092917	44.75574552
59	91831	0.003826291667	0.2808355833	43.55827553
60	98961	0.004123375	0.2849589583	40.41996342
61	88524	0.0036885	0.2886474583	45.18548642
62	91418	0.003809083333	0.2924565417	43.75505918
63	98829	0.004117875	0.2965744167	40.47394995
64	88458	0.00368575	0.3002601667	45.21920007
65	91262	0.003802583333	0.30406275	43.82985251
66	98999	0.004124958333	0.3081877083	40.40444853
67	88478	0.003686583333	0.3118742917	45.2089785
68	91178	0.003799083333	0.315673375	43.87023185

speed vs. total Table20



69	98641	0.004110041667	0.3197834167	40.5510893					
70	88002	0.00366675	0.3234501667	45.45351242					
71	90937	0.003789041667	0.3272392083	43.98649615					
72	98351	0.004097958333	0.3313371667	40.67065917					
73	88025	0.003667708333	0.335004875	45.4416359					
74	91109	0.003796208333	0.3388010833	43.9034563					
75	99178	0.004132416667	0.3429335	40.33152514					
76	88175	0.003673958333	0.3466074583	45.36433229					
77	90536	0.003772333333	0.3503797917	44.18132014					
78	99571	0.004148791667	0.3545285833	40.17233934					
79	88221	0.003675875	0.3582044583	45.34067852					
80	91847	0.003826958333	0.3620314167	43.55068756					
81	99368	0.004140333333	0.36617175	40.25440786					
82	88679	0.003694958333	0.3698667083	45.10650774					
83	91501	0.003812541667	0.37367925	43.71536923					
84	98969	0.004123708333	0.3778029583	40.41669614					
85	88290	0.00367875	0.3814817083	45.30524408					
86	90867	0.003786125	0.3852678333	44.02038144					
87	98534	0.004105583333	0.3893734167	40.59512453					
88	88302	0.00367925	0.3930526667	45.29908722					
89	90772	0.003782166667	0.3968348333	44.06645221					
90	98271	0.004094625	0.4009294583	40.70376815					
91	88033	0.003668041667	0.4045975	45.43750639					
92	90732	0.0037805	0.408378	44.08587929					
93	98207	0.004091958333	0.4124699583	40.73029417					
94	87618	0.00365075	0.4161207083	45.65271976					
95	90594	0.00377475	0.4198954583	44.15303442					
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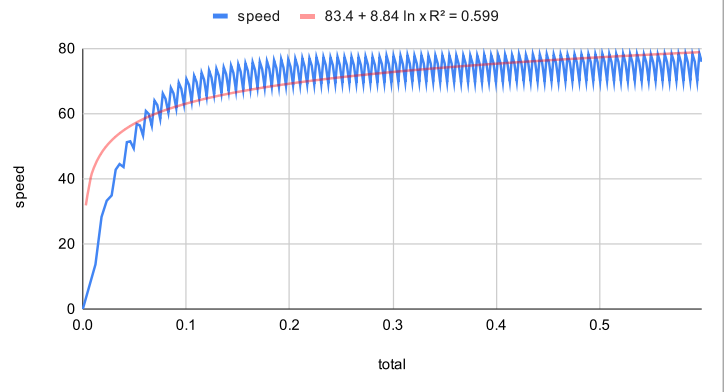
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speed vs. total Foam30



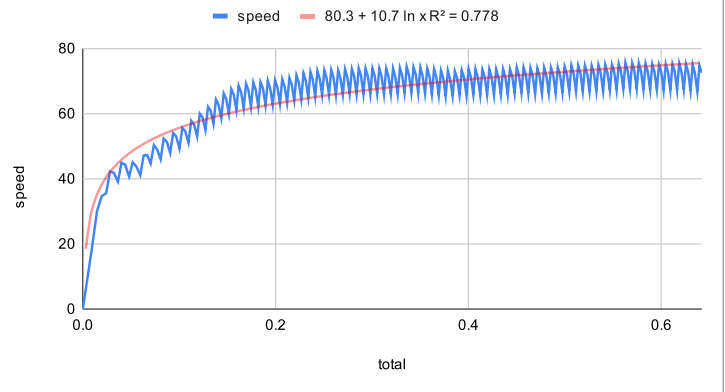
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88	57780	0.0024075	0.23742575	69.22810661						
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135	53056	0.002210666667	0.3432564583	75.3920386						
136	57409	0.002392041667	0.3456485	69.67548642						
137	51388	0.002141166667	0.3477896667	77.83918425						
138	53041	0.002210041667	0.3499997083	75.41335948						

139	57426	0.00239275	0.3523924583	69.65486017						
140	51382	0.002140916667	0.354533375	77.84827371						
141	53088	0.002212	0.356745375	75.34659433						
142	57385	0.002391041667	0.3591364167	69.70462664						
143	51408	0.002142	0.3612784167	77.80890134						
144	53140	0.002214166667	0.3634925833	75.27286413						
145	57480	0.002395	0.3658875833	69.58942241						
146	51398	0.002141583333	0.3680291667	77.82403985						
147	53011	0.002208791667	0.3702379583	75.45603743						
148	57430	0.002392916667	0.372630875	69.65000871						
149	51403	0.002141791667	0.3747726667	77.81646986						
150	53046	0.00221025	0.3769829167	75.40625118						
151	57474	0.00239475	0.3793776667	69.5966872						
152	51400	0.002141666667	0.3815193333	77.82101167						
153	53042	0.002210083333	0.3837294167	75.41193771						
154	57450	0.00239375	0.3861231667	69.62576153						
155	51253	0.002135541667	0.3882587083	78.04421205						
156	53139	0.002214125	0.3904728333	75.27428066						
157	57293	0.002387208333	0.3928600417	69.816557						
158	51337	0.002139041667	0.3949990833	77.91651246						
159	52909	0.002204541667	0.397203625	75.60150447						
160	57368	0.002390333333	0.3995939583	69.72528239						
161	51323	0.002138458333	0.4017324167	77.93776669						
162	52919	0.002204958333	0.403937375	75.5872182						
163	57387	0.002391125	0.4063285	69.70219736						
164	51243	0.002135125	0.408463625	78.05944227						
165	52952	0.002206333333	0.4106699583	75.5401118						
166	57238	0.002384916667	0.413054875	69.88364373						
167	51314	0.002138083333	0.4151929583	77.95143626						
168	52963	0.002206791667	0.41739975	75.52442271						
169	57159	0.002381625	0.419781375	69.98023058						
170	51187	0.002132791667	0.4219141667	78.14484146						
171	52913	0.002204708333	0.424118875	75.59578931						
172	57193	0.002383041667	0.4265019167	69.93862885						
173	51290	0.002137083333	0.428639	77.98791187						
174	52887	0.002203625	0.430842625	75.63295328						
175	57205	0.002383541667	0.4332261667	69.9239577						
176	51172	0.002132166667	0.4353583333	78.16774799						
177	52827	0.002201125	0.4375594583	75.71885589						
178	57206	0.002383583333	0.4399430417	69.92273538						
179	51225	0.002134375	0.4420774167	78.08687164						
180	52894	0.002203916667	0.4442813333	75.622944						
181	57259	0.002385791667	0.446667125	69.85801359						
182	51185	0.002132708333	0.4487998333	78.14789489						
183	52866	0.00220275	0.4510025833	75.66299701						
184	57136	0.002380666667	0.45338325	70.00840101						
185	51228	0.0021345	0.45551775	78.08229874						
186	52932	0.0022055	0.45772325	75.56865412						
187	57239	0.002384958333	0.4601082083	69.88242282						
188	51202	0.002133416667	0.462241625	78.12194836						
189	52810	0.002200416667	0.4644420417	75.74323045						
190	57161	0.002381708333	0.46682375	69.97778205						
191	51260	0.002135833333	0.4689595833	78.03355443						
192	52866	0.00220275	0.4711623333	75.66299701						
193	57165	0.002381875	0.4735442083	69.97288551						
194	51189	0.002132875	0.4756770833	78.14178827						
195	52846	0.002201916667	0.477879	75.69163229						
196	57118	0.002379916667	0.4802589167	70.03046325						
197	51188	0.002132833333	0.48239175	78.14331484						
198	52857	0.002202375	0.484594125	75.67588021						
199	57155	0.002381458333	0.4869755833	69.98512816						
200	51165	0.002131875	0.4891074583	78.17844229						
201	52773	0.002198875	0.4913063333	75.79633525						
202	57141	0.002380875	0.4936872083	70.00227507						
203	51143	0.002130958333	0.4958181667	78.21207203						
204	52805	0.002200208333	0.498018375	75.75040242						
205	57136	0.002380666667	0.5003990417	70.00840101						
206	51055	0.002127291667	0.5025263333	78.34688081						
207	52780	0.002199166667	0.5047255	75.78628268						
208	57033	0.002376375	0.507101875	70.13483422						

209	51099	0.002129125	0.509231	78.27941838						
210	52793	0.002199708333	0.5114307083	75.76762071						
211	57160	0.002381666667	0.513812375	69.9790063						
212	51087	0.002128625	0.515941	78.2978057						
213	52773	0.002198875	0.518139875	75.79633525						
214	57133	0.002380541667	0.5205204167	70.01207708						
215	51082	0.002128416667	0.5226488333	78.30546964						
216	52863	0.002202625	0.5248514583	75.66729092						
217	57157	0.002381541667	0.527233	69.98267929						
218	51103	0.002129291667	0.5293622917	78.2732912						
219	52812	0.0022005	0.5315627917	75.74036204						
220	57065	0.002377708333	0.5339405	70.09550513						
221	51120	0.00213	0.5360705	78.24726135						
222	52835	0.002201458333	0.5382719583	75.70739093						
223	57112	0.002379666667	0.540651625	70.03782042						
224	51190	0.002132916667	0.5427845417	78.14026177						
225	52776	0.002199	0.5449835417	75.79202668						
226	57024	0.002376	0.5473595417	70.14590348						
227	51190	0.002132916667	0.5494924583	78.14026177						
228	52836	0.0022015	0.5516939583	75.70595806						
229	57008	0.002375333333	0.5540692917	70.16559079						
230	51182	0.002132583333	0.556201875	78.15247548						
231	52788	0.0021995	0.558401375	75.7747973						
232	57019	0.002375791667	0.5607771667	70.15205458						
233	51101	0.002129208333	0.562906375	78.27635467						
234	52784	0.002199333333	0.5651057083	75.78053956						
235	57114	0.00237975	0.5674854583	70.03536786						
236	51129	0.002130375	0.5696158333	78.23348784						
237	52690	0.002195416667	0.57181125	75.91573354						
238	56977	0.002374041667	0.5741852917	70.20376643						
239	51059	0.002127458333	0.57631275	78.34074306						
240	52785	0.002199375	0.578512125	75.77910391						
241	57124	0.002380166667	0.5808922917	70.02310763						
242	51055	0.002127291667	0.5830195833	78.34688081						
243	52799	0.002199958333	0.5852195417	75.75901059						
244	57035	0.002376458333	0.587596	70.13237486						
245	51069	0.002127875	0.589723875	78.32540289						
246	52678	0.002194916667	0.5919187917	75.93302707						
247	57124	0.002380166667	0.5942989583	70.02310763						
248	51033	0.002126375	0.5964253333	78.38065565						
249	52709	0.002196208333	0.5986215417	75.88836821						

Sample	enc_count	Delta	total	speed
0	0	0	0	0
1	220198	0.009174916667	0.009174916667	18.16546926
2	133052	0.005543833333	0.01471875	30.06343385
3	115598	0.004816583333	0.01953533333	34.60267479
4	112462	0.004685916667	0.02422125	35.56756949
5	94759	0.003948291667	0.02816954167	42.21234922
6	95708	0.003987833333	0.032157375	41.79378944
7	102235	0.004259791667	0.03641716667	39.12554409
8	89054	0.003710583333	0.04012775	44.91656748
9	90281	0.003761708333	0.04388945833	44.30611092
10	98421	0.004100875	0.04799033333	40.64173296
11	88841	0.003701708333	0.05169204167	45.02425682
12	91427	0.003809458333	0.0555015	43.75075197
13	97385	0.004057708333	0.05955920833	41.07408739
14	84901	0.003537541667	0.06309675	47.11369713
15	84600	0.003525	0.06662175	47.28132388
16	89576	0.003732333333	0.07035408333	44.65481825
17	79494	0.00331225	0.07366633333	50.31826301
18	81655	0.003402291667	0.077068625	48.98658992
19	86992	0.003624666667	0.08069329167	45.98123965
20	76460	0.003185833333	0.083879125	52.31493591
21	77950	0.003247916667	0.08712704167	51.31494548
22	83500	0.003479166667	0.09060620833	47.90419162
23	74070	0.00308625	0.09369245833	54.00297016
24	75533	0.003147208333	0.09683966667	52.95698569
25	81154	0.003381416667	0.1002210833	49.28900609
26	71966	0.002998583333	0.1032196667	55.58180252
27	73333	0.003055541667	0.1062752083	54.54570248
28	78330	0.00326375	0.1095389583	51.06600281
29	69216	0.002884	0.1124229583	57.79010633
30	70605	0.002941875	0.1153648333	56.65321153
31	75514	0.003146416667	0.11851125	52.97031014
32	66675	0.002778125	0.121289375	59.99250094
33	67980	0.0028325	0.124121875	58.84083554
34	72788	0.003032833333	0.1271547083	54.95411332
35	64417	0.002684041667	0.12983875	62.0954096
36	65693	0.002737208333	0.1325759583	60.88928805
37	70253	0.002927208333	0.1355031667	56.9370703
38	62212	0.002592166667	0.1380953333	64.29627725
39	63730	0.002655416667	0.14075075	62.76478895
40	68194	0.002841416667	0.1435921667	58.65618676
41	60464	0.002519333333	0.1461115	66.15506748
42	62038	0.002584916667	0.1486964167	64.47661111
43	66758	0.002781583333	0.151478	59.91791246
44	59254	0.002468916667	0.1539469167	67.50599116
45	60783	0.002532625	0.1564795417	65.80787391
46	65397	0.002724875	0.1592044167	61.16488524
47	58378	0.002432416667	0.1616368333	68.51896262
48	60103	0.002504291667	0.164141125	66.55241835
49	64830	0.00270125	0.166842375	61.69983033
50	57855	0.002410625	0.169253	69.13836315
51	59554	0.002481416667	0.1717344167	67.16593344
52	64400	0.002683333333	0.17441775	62.11180124
53	57502	0.002395916667	0.1768136667	69.56279782
54	59394	0.00247475	0.1792884167	67.34687005
55	64241	0.002676708333	0.181965125	62.26553136
56	57456	0.002394	0.184359125	69.61849067
57	59089	0.002462041667	0.1868211667	67.69449475
58	63917	0.002663208333	0.189484375	62.58115994
59	57079	0.002378291667	0.1918626667	70.07831251
60	59074	0.002461416667	0.1943240833	67.71168365
61	63820	0.002659166667	0.19698325	62.67627703
62	56987	0.002374458333	0.1993577083	70.19144717
63	58756	0.002448166667	0.201805875	68.07815372
64	63493	0.002645541667	0.2044514167	62.99907076
65	56726	0.002363583333	0.206815	70.51440257
66	58498	0.002437416667	0.2092524167	68.3784061
67	63100	0.002629166667	0.2118815833	63.39144216
68	56407	0.002350291667	0.214231875	70.91318453

speed vs. total Table30



69	58038	0.00241825	0.216650125	68.92036252					
70	62441	0.002601708333	0.2192518333	64.06047309					
71	55802	0.002325083333	0.2215769167	71.68201857					
72	57497	0.002395708333	0.223972625	69.56884707					
73	62036	0.002584833333	0.2265574583	64.47868979					
74	55320	0.002305	0.2288624583	72.3065799					
75	57064	0.002377666667	0.231240125	70.09673349					
76	61521	0.002563375	0.2338035	65.01844898					
77	54957	0.002289875	0.236093375	72.78417672					
78	56736	0.002364	0.238457375	70.50197406					
79	61293	0.002553875	0.24101125	65.26030705					
80	54776	0.002282333333	0.2432935833	73.02468234					
81	56531	0.002355458333	0.2456490417	70.7576374					
82	60875	0.002536458333	0.2481855	65.70841889					
83	54601	0.002275041667	0.2504605417	73.25873153					
84	56405	0.002350208333	0.25281075	70.91569896					
85	60876	0.0025365	0.25534725	65.70733951					
86	54552	0.002273	0.25762025	73.32453439					
87	56278	0.002344916667	0.2599651667	71.07573119					
88	60975	0.002540625	0.2625057917	65.60065601					
89	54654	0.00227725	0.2647830417	73.18768983					
90	56369	0.002348708333	0.26713175	70.9609892					
91	60850	0.002535416667	0.2696671667	65.73541495					
92	54402	0.00226675	0.2719339167	73.52670858					
93	56163	0.002340125	0.2742740417	71.22126667					
94	60605	0.002525208333	0.27679925	66.00115502					
95	54297	0.002262375	0.279061625	73.66889515					
96	55935	0.002330625	0.28139225	71.51157594					
97	60598	0.002524916667	0.2839171667	66.00877917					
98	54124	0.002255166667	0.2861723333	73.90436775					
99	55846	0.002326916667	0.28849925	71.62554167					
100	60566	0.002523583333	0.2910228333	66.04365486					
101	54207	0.002258625	0.2932814583	73.79120778					
102	55980	0.0023325	0.2956139583	71.45409075					
103	60586	0.002524416667	0.298138375	66.02185323					
104	54180	0.0022575	0.300395875	73.8279808					
105	55870	0.002327916667	0.3027237917	71.59477358					
106	60476	0.002519833333	0.305243625	66.1419406					
107	54178	0.002257416667	0.3075010417	73.83070619					
108	55989	0.002332875	0.3098339167	71.4426048					
109	60650	0.002527083333	0.312361	65.95218467					
110	54201	0.002258375	0.314619375	73.7993764					
111	55968	0.002332	0.316951375	71.46941109					
112	60591	0.002524625	0.319476	66.01640508					
113	54189	0.002257875	0.321733875	73.81571906					
114	56106	0.00233775	0.324071625	71.29362279					
115	60613	0.002525541667	0.3265971667	65.99244387					
116	54068	0.002252833333	0.32885	73.98091292					
117	55809	0.002325375	0.331175375	71.67302765					
118	60217	0.002509041667	0.3336844167	66.42642443					
119	53814	0.00224225	0.3359266667	74.33009997					
120	55648	0.002318666667	0.3382453333	71.88039103					
121	60148	0.002506166667	0.3407515	66.50262685					
122	53920	0.002246666667	0.3429981667	74.18397626					
123	55538	0.002314083333	0.34531225	72.02275919					
124	60321	0.002513375	0.347825625	66.31189801					
125	53984	0.002249333333	0.3500749583	74.09602845					
126	55918	0.002329916667	0.352404875	71.53331664					
127	60427	0.002517791667	0.3549226667	66.19557483					
128	54225	0.002259375	0.3571820417	73.76671277					
129	55956	0.0023315	0.3595135417	71.48473801					
130	60660	0.0025275	0.3620410417	65.94131223					
131	54335	0.002263958333	0.364305	73.6173737					
132	56215	0.002342291667	0.3666472917	71.15538557					
133	60934	0.002538916667	0.3691862083	65.64479601					
134	54694	0.002278916667	0.371465125	73.13416463					
135	56471	0.002352958333	0.3738180833	70.83281684					
136	61180	0.002549166667	0.37636725	65.38084341					
137	54694	0.002278916667	0.3786461667	73.13416463					
138	56794	0.002366416667	0.3810125833	70.429975					

139	61185	0.002549375	0.3835619583	65.37550053						
140	54833	0.002284708333	0.3858466667	72.94877173						
141	56422	0.002350916667	0.3881975833	70.894332						
142	60916	0.002538166667	0.39073575	65.66419332						
143	54580	0.002274166667	0.3930099167	73.28691829						
144	56289	0.002345375	0.3953552917	71.06184157						
145	60913	0.002538041667	0.3978933333	65.66742731						
146	54311	0.002262958333	0.4001562917	73.64990518						
147	56196	0.0023415	0.4024977917	71.17944338						
148	60726	0.00253025	0.4050280417	65.86964397						
149	54326	0.002263583333	0.407291625	73.62956964						
150	56195	0.002341458333	0.4096330833	71.18071003						
151	60887	0.002536958333	0.4121700417	65.69546866						
152	54454	0.002268916667	0.4144389583	73.45649539						
153	56060	0.002335833333	0.4167747917	71.35212273						
154	60778	0.002532416667	0.4193072083	65.8132877						
155	54352	0.002264666667	0.421571875	73.59434795						
156	56155	0.002339791667	0.4239116667	71.23141305						
157	60867	0.002536125	0.4264477917	65.71705522						
158	54395	0.002266458333	0.42871425	73.5361706						
159	56238	0.00234325	0.4310575	71.12628472						
160	60780	0.0025325	0.43359	65.81112208						
161	54360	0.002265	0.435855	73.58351729						
162	56147	0.002339458333	0.4381944583	71.24156233						
163	60780	0.0025325	0.4407269583	65.81112208						
164	54323	0.002263458333	0.4429904167	73.63363584						
165	55946	0.002331083333	0.4453215	71.49751546						
166	60375	0.002515625	0.447837125	66.25258799						
167	53965	0.002248541667	0.4500856667	74.12211619						
168	55750	0.002322916667	0.4524085833	71.74887892						
169	60211	0.002508791667	0.454917375	66.4330438						
170	53944	0.002247666667	0.4571650417	74.15097138						
171	55646	0.002318583333	0.459483625	71.88297452						
172	60365	0.002515208333	0.4619988333	66.26356332						
173	54064	0.002252666667	0.4642515	73.9863865						
174	55912	0.002329666667	0.4665811667	71.54099299						
175	60518	0.002521583333	0.46910275	66.09603754						
176	54154	0.002256416667	0.4713591667	73.86342652						
177	55875	0.002328125	0.4736872917	71.58836689						
178	60465	0.002519375	0.4762066667	66.15397337						
179	53992	0.002249666667	0.4784563333	74.08504964						
180	55815	0.002325625	0.4807819583	71.66532294						
181	60309	0.002512875	0.4832948333	66.32509244						
182	54040	0.002251666667	0.4855465	74.019245						
183	55659	0.002319125	0.487865625	71.86618516						
184	60321	0.002513375	0.490379	66.31189801						
185	53930	0.002247083333	0.4926260833	74.17022066						
186	55647	0.002318625	0.4949447083	71.88168275						
187	60160	0.002506666667	0.497451375	66.4893617						
188	53767	0.002240291667	0.4996916667	74.39507505						
189	55405	0.002308541667	0.5020002083	72.19565021						
190	59852	0.002493833333	0.5044940417	66.83151774						
191	53495	0.002289583333	0.506723	74.7733433						
192	55282	0.002303416667	0.5090264167	72.35628233						
193	59807	0.002491958333	0.511518375	66.88180313						
194	53540	0.002230833333	0.5137492083	74.71049682						
195	55215	0.002300625	0.5160498333	72.44408222						
196	59838	0.00249325	0.5185430833	66.84715398						
197	53567	0.002231958333	0.5207750417	74.67283962						
198	55308	0.0023045	0.5230795417	72.32226803						
199	59882	0.002495083333	0.525574625	66.79803614						
200	53586	0.00223275	0.527807375	74.64636286						
201	55264	0.002302666667	0.5301100417	72.37984945						
202	59716	0.002488166667	0.5325982083	66.98372296						
203	53420	0.002225833333	0.5348240417	74.87832273						
204	55247	0.002301958333	0.537126	72.40212138						
205	59765	0.002490208333	0.5396162083	66.92880448						
206	53386	0.002224416667	0.541840625	74.92601056						
207	55177	0.002299041667	0.5441396667	72.49397394						
208	59513	0.002479708333	0.546619375	67.21220574						



209	53357	0.002223208333	0.5488425833	74.96673351						
210	54943	0.002289291667	0.551131875	72.80272282						
211	59439	0.002476625	0.5536085	67.29588317						
212	53150	0.002214583333	0.5558230833	75.25870179						
213	54778	0.002282416667	0.5581055	73.02201614						
214	59143	0.002464291667	0.5605697917	67.63268688						
215	52916	0.002204833333	0.562774625	75.59150352						
216	54632	0.002276333333	0.5650509583	73.2171621						
217	59142	0.00246425	0.5675152083	67.63383044						
218	52993	0.002208041667	0.56972325	75.48166739						
219	54684	0.0022785	0.57200175	73.14753859						
220	59193	0.002466375	0.574468125	67.57555792						
221	53037	0.002209875	0.576678	75.41904708						
222	54837	0.002284875	0.578962875	72.94345059						
223	59389	0.002474541667	0.5814374167	67.35254003						
224	53161	0.002215041667	0.5836524583	75.24312936						
225	54897	0.002287375	0.5859398333	72.86372662						
226	59407	0.002475291667	0.588415125	67.33213258						
227	53239	0.002218291667	0.5906334167	75.1328913						
228	54969	0.002290375	0.5929237917	72.76828758						
229	59386	0.002474416667	0.5953982083	67.35594248						
230	53363	0.002223458333	0.5976216667	74.95830444						
231	54932	0.002288833333	0.5999105	72.81730139						
232	59491	0.002478791667	0.6023892917	67.23706107						
233	53215	0.002217291667	0.6046065833	75.16677628						
234	54959	0.002289958333	0.6068965417	72.78152805						
235	59503	0.002479291667	0.6093758333	67.22350134						
236	53219	0.002217458333	0.6115932917	75.16112667						
237	54779	0.002282458333	0.61387575	73.02068311						
238	59451	0.002477125	0.616352875	67.28229971						
239	53044	0.002210166667	0.6185630417	75.40909434						
240	54906	0.00228775	0.6208507917	72.85178305						
241	59389	0.002474541667	0.6233253333	67.35254003						
242	53238	0.00221825	0.6255435833	75.13430257						
243	54969	0.002290375	0.6278339583	72.76828758						
244	59636	0.002484833333	0.6303187917	67.07357972						
245	53348	0.002222833333	0.632541625	74.97938067						
246	55242	0.00230175	0.634843375	72.40867456						
247	59845	0.002493541667	0.6373369167	66.83933495						
248	53559	0.002231625	0.6395685417	74.68399335						
249	55123	0.002296791667	0.6418653333	72.56499102						