

# processingEMG

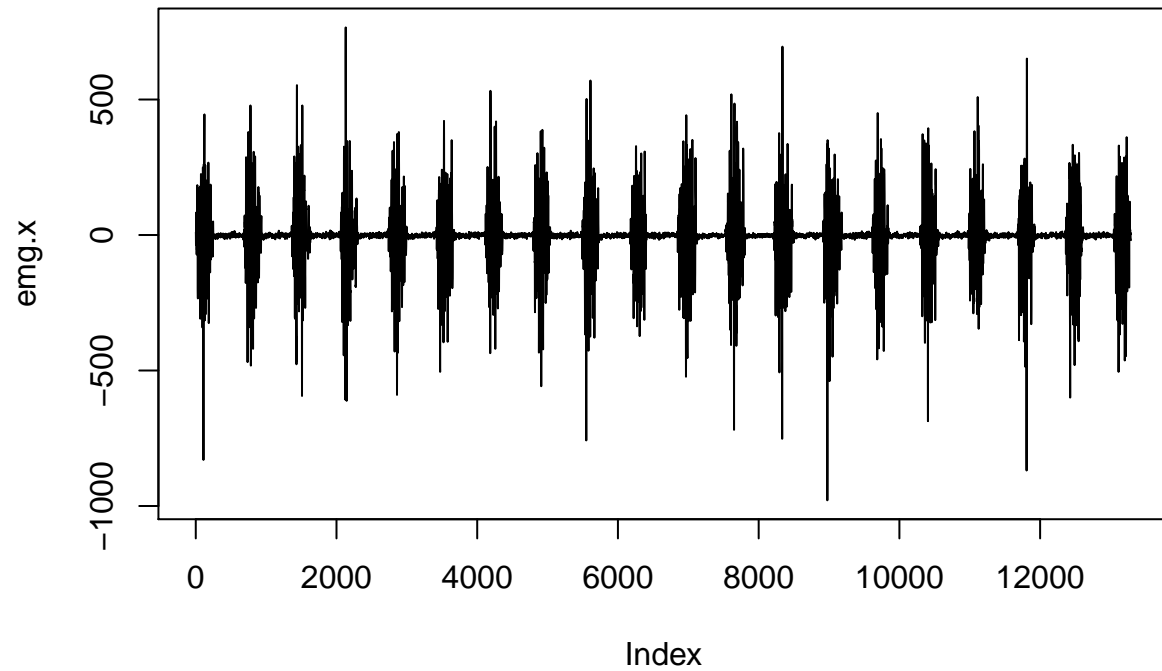
*Sjur Ofsteng*

*31 januar 2018*

```
# Change emg to emg object
emg.x <- emg$VLL #
plot(emg.x, channels = "all", samples = 0, type = "l", timeunits = "seconds",
     add = FALSE)
```

```
## Warning in plot.window(...): "channels" is not a graphical parameter
## Warning in plot.window(...): "samples" is not a graphical parameter
## Warning in plot.window(...): "timeunits" is not a graphical parameter
## Warning in plot.window(...): "add" is not a graphical parameter
## Warning in plot.xy(xy, type, ...): "channels" is not a graphical parameter
## Warning in plot.xy(xy, type, ...): "samples" is not a graphical parameter
## Warning in plot.xy(xy, type, ...): "timeunits" is not a graphical parameter
## Warning in plot.xy(xy, type, ...): "add" is not a graphical parameter
## Warning in axis(side = side, at = at, labels = labels, ...): "channels" is
## not a graphical parameter
## Warning in axis(side = side, at = at, labels = labels, ...): "samples" is
## not a graphical parameter
## Warning in axis(side = side, at = at, labels = labels, ...): "timeunits" is
## not a graphical parameter
## Warning in axis(side = side, at = at, labels = labels, ...): "add" is not a
## graphical parameter
## Warning in axis(side = side, at = at, labels = labels, ...): "channels" is
## not a graphical parameter
## Warning in axis(side = side, at = at, labels = labels, ...): "samples" is
## not a graphical parameter
## Warning in axis(side = side, at = at, labels = labels, ...): "timeunits" is
## not a graphical parameter
## Warning in axis(side = side, at = at, labels = labels, ...): "add" is not a
## graphical parameter
## Warning in box(...): "channels" is not a graphical parameter
## Warning in box(...): "samples" is not a graphical parameter
## Warning in box(...): "timeunits" is not a graphical parameter
## Warning in box(...): "add" is not a graphical parameter
## Warning in title(...): "channels" is not a graphical parameter
## Warning in title(...): "samples" is not a graphical parameter
## Warning in title(...): "timeunits" is not a graphical parameter
```

```
## Warning in title(...): "add" is not a graphical parameter
```



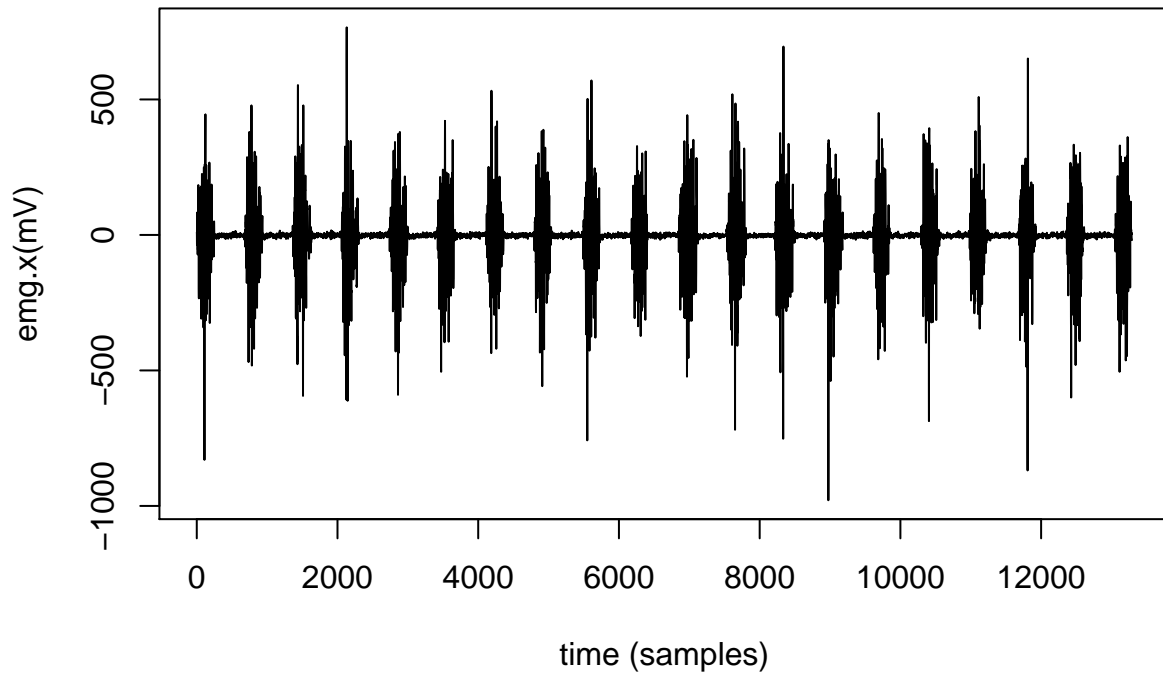
```
length(emg.x)
```

```
## [1] 13291
```

```
emgraw <- as.emg(emg.x, samplingrate = 1500, units = "mV", date.name = "VLL") # sampling rate 1500Hz to  
is.emg(emgraw) # EMG object check
```

```
## [1] TRUE
```

```
plot(emgraw)
```



```
emgraw #emg raw data
```

```
## EMG Object : emg.x
## Number of samples: 13291
## Units: mV
## Duration (seconds): 8.860667
## Samplingrate (Hertz): 1500
## Values:
## [1] 10 1 -36 -37 -25 -7 20 60 84 79 9 -56 -72
## [14] -55 -34 -54 -50 1 44 97 168 184 141 114 66 -7
## [27] -93 -197 -221 -234 -153 -50 103 164 174 152 78 21 3
## [40] -36 -144 -136 -70 -11 65 70 75 87 89 84 29 -63
## [53] -117 -108 -46 -42 2 -27 -5 150 179 -15 -302 -309 -122
## [66] -91 -183 -143 -18 63 7 59 191 225 156 71 40 74
## [79] 139 103 35 -68 10 158 207 217 112 -12 -31 -31 17
## [92] 17 -76 -173 -247 -342 -296 -303 -112 200 249 236 219 220
## [105] 213 22 -161 -607 -830 -606 -147 128 218 261 174 123 61
## [118] 149 241 309 372 442 445 249 61 -126 -244 -315 -303 -237
## [131] -68 88 210 258 249 206 -64 -293 -234 -44 106 202 120
## [144] -8 -83 -86 -19 13 2 -34 -61 -51 -125 -236 -216 -77
## [157] 66 90 10 -31 -75 -74 -51 -14 -12 -16 -37 -16 29
## [170] 46 10 -23 -31 -15 -95 -23 124 233 267 244 149 8
## [183] -153 -270 -325 -244 -94 12 100 154 148 123 88 32 20
## [196] -22 -75 -74 -29 -22 -89 -112 -131 -138 -113 -60 34 127
## [209] 163 186 164 143 112 62 -41 -90 -61 -20 15 34 22
## [222] 29 14 8 15 38 39 30 21 13 4 0 -4 -12
```

##	[235]	-16	-35	-43	-55	-75	-80	-50	-11	25	41	45	50	43
##	[248]	23	0	0	3	-1	-4	-5	-7	-12	-8	-13	-12	-9
##	[261]	-6	0	-4	1	-5	-6	-9	-5	-3	-6	-7	-4	-4
##	[274]	2	-1	-3	-6	-7	-14	-10	-12	-10	-7	0	0	-2
##	[287]	-8	-7	-13	-2	0	0	-2	-1	-3	-1	-7	4	-5
##	[300]	-6	0	-2	-4	-5	-12	-5	-13	-1	-4	-4	0	-5
##	[313]	-5	-13	-2	-4	-7	-1	4	6	0	-8	-2	0	-4
##	[326]	-5	3	0	0	-1	-3	-2	-4	0	-7	-6	0	-2
##	[339]	4	0	2	0	3	0	-1	0	-3	-5	-5	-5	-9
##	[352]	-6	-1	7	6	0	0	-5	0	0	-3	3	3	3
##	[365]	1	-5	-1	-4	0	-1	-8	-8	-5	-6	3	3	0
##	[378]	5	1	0	4	2	-1	2	1	0	-5	-1	0	-10
##	[391]	-3	5	5	0	-2	0	-1	1	-8	-5	-7	-11	-11
##	[404]	-8	-6	-5	-6	-15	-15	-13	-13	0	1	-3	0	1
##	[417]	0	-5	-6	-6	-3	2	3	5	-2	-7	-8	-10	-12
##	[430]	-8	-5	-7	-6	-8	-1	3	-7	-6	-4	1	-8	1
##	[443]	0	-2	-5	-8	-14	-10	-9	-3	0	0	-5	-5	-2
##	[456]	0	-1	-6	-3	-3	0	-1	5	0	-1	1	0	0
##	[469]	0	-6	-4	0	3	-3	0	-1	6	6	5	2	4
##	[482]	-3	-1	-5	-7	-8	-8	-14	-5	0	1	0	4	0
##	[495]	0	1	1	3	0	-5	-5	-2	-6	-6	-1	2	2
##	[508]	0	11	2	-1	-2	-5	0	-9	-1	-8	-4	-1	-7
##	[521]	-7	-3	-2	0	3	11	7	4	2	1	-2	-5	-4
##	[534]	-1	-2	-5	-6	-4	-4	0	1	13	3	-8	0	-1
##	[547]	5	4	3	-7	-2	7	14	12	7	9	3	0	0
##	[560]	3	0	3	-1	0	-2	-2	-3	-8	-10	-4	-3	0
##	[573]	5	0	-5	-1	0	3	0	2	-4	-4	0	-6	-2
##	[586]	-4	0	-3	0	0	0	2	3	1	0	-5	-4	1
##	[599]	-2	0	0	-1	-5	0	5	-5	-2	-1	-9	-7	0
##	[612]	0	-1	0	0	0	6	0	4	2	3	6	3	-2
##	[625]	-7	0	0	-1	2	-1	2	0	1	-1	0	-4	0
##	[638]	-2	-5	-1	0	0	2	-1	0	-2	0	-1	0	0
##	[651]	0	-7	-1	-1	-1	-4	-4	0	0	0	0	-6	-4
##	[664]	-6	-2	0	1	4	-1	0	3	5	6	3	3	-3
##	[677]	-11	-18	-12	-5	3	4	3	4	-2	-5	6	19	15
##	[690]	-35	-44	-9	43	72	71	40	28	32	48	30	-97	-121
##	[703]	-80	-21	9	-5	-59	-50	-97	-177	-175	-139	17	179	287
##	[716]	281	210	123	74	42	-23	-11	-30	-8	13	36	85	111
##	[729]	82	82	85	61	-5	-223	-342	-469	-385	-199	3	108	96
##	[742]	94	31	73	157	298	380	331	184	-75	-257	-341	-278	-176
##	[755]	-284	-225	-63	7	97	189	195	41	-55	-101	-41	8	92
##	[768]	207	247	83	-103	-101	-275	-293	-10	337	478	463	340	163
##	[781]	-79	-268	-482	-461	-240	-53	-13	-72	-61	58	193	266	255
##	[794]	245	233	21	-165	-39	136	58	-66	-35	72	99	-81	-228
##	[807]	-218	-199	-123	-18	34	22	-275	-420	-215	7	247	231	91
##	[820]	24	121	252	307	263	156	29	-119	-268	-308	-187	-75	-67
##	[833]	-131	-55	-37	-64	25	130	16	24	163	258	290	262	193
##	[846]	143	100	73	42	25	-6	-78	-153	-169	-193	-269	-258	-174
##	[859]	-48	23	59	69	67	86	104	98	101	23	-25	12	19
##	[872]	21	41	25	-9	-24	-50	-104	-139	-141	-175	-109	-69	-125
##	[885]	-116	-87	-89	25	143	177	141	156	151	139	82	-11	-81
##	[898]	-147	-158	-122	-28	58	117	146	143	110	95	66	48	33
##	[911]	14	-9	-32	-46	-61	-62	-56	-37	-25	-16	-13	-18	-23
##	[924]	-31	-39	-66	-52	-13	39	58	61	70	56	23	-1	-1

##	[937]	-6	-8	-5	3	0	5	0	0	-5	-12	-10	-3	0
##	[950]	0	-8	0	-6	-10	-11	-10	-6	-5	-2	-8	-8	-14
##	[963]	-18	-11	-10	-8	0	0	2	-1	-2	-7	-15	-6	0
##	[976]	-2	-5	-3	-5	-3	-2	0	0	-2	0	2	-1	0
##	[989]	-2	-4	-11	-7	-2	4	6	0	-10	-7	-4	-2	-13
##	[1002]	-9	-7	-6	0	-1	3	0	-5	-9	-9	-4	-6	-4
##	[1015]	0	0	0	3	-1	0	4	0	-3	-7	-9	-9	0
##	[1028]	-5	0	-8	-2	-1	7	5	6	2	-9	-1	-5	-4
##	[1041]	-3	-7	-2	6	9	5	4	-1	0	2	0	0	-1
##	[1054]	2	0	-3	-2	2	8	1	4	2	0	0	1	-3
##	[1067]	-5	-4	-3	-1	0	4	-4	2	-4	-6	-4	-5	-2
##	[1080]	-7	-10	-9	-10	-10	0	4	0	0	1	-1	-4	-6
##	[1093]	-4	-6	-11	-7	-4	-10	-5	-5	0	0	0	1	-6
##	[1106]	-1	0	-5	-9	-6	-4	0	0	1	-3	-4	-9	-6
##	[1119]	-10	-12	-7	0	0	-5	-5	-4	-2	-5	-10	-16	-13
##	[1132]	-10	-1	-5	-3	5	-5	4	5	0	0	-1	-1	2
##	[1145]	0	0	0	2	1	2	-3	-1	1	0	0	-1	-3
##	[1158]	-6	0	1	-4	-1	-1	-7	-8	-4	1	-3	0	-1
##	[1171]	-9	-11	-6	-3	-2	3	10	10	8	16	9	8	7
##	[1184]	-4	-2	-2	-8	0	0	6	3	-3	0	0	-6	-13
##	[1197]	-1	0	0	2	6	-2	0	0	5	4	0	3	0
##	[1210]	1	-1	-7	-1	0	-1	-4	0	0	-3	5	8	3
##	[1223]	9	6	5	6	0	-5	-2	0	1	2	3	5	-1
##	[1236]	0	0	-6	-1	3	1	-2	-4	-2	-3	0	-4	-1
##	[1249]	1	5	5	6	2	-2	2	2	0	-1	-7	-8	-5
##	[1262]	-8	-3	-10	-5	-11	-5	-15	-3	-9	-5	4	5	5
##	[1275]	0	2	6	2	0	-2	-7	-8	-10	-6	-9	-4	-9
##	[1288]	-6	-11	-8	4	6	3	4	-2	-4	-14	0	-4	-2
##	[1301]	0	1	-5	2	0	-1	2	-5	1	2	-5	0	-3
##	[1314]	1	-3	-5	0	-1	0	-2	0	5	0	-5	4	1
##	[1327]	-4	1	0	1	0	0	-7	0	-3	-2	-4	-5	0
##	[1340]	0	6	5	6	7	3	5	5	0	2	1	8	10
##	[1353]	2	2	-1	2	6	4	-2	0	7	11	24	34	32
##	[1366]	20	16	11	0	-29	-79	-65	-26	13	28	24	9	-5
##	[1379]	-59	-58	-22	7	22	56	83	4	-126	-114	-86	5	96
##	[1392]	139	105	90	0	-152	-120	-3	168	290	270	161	112	81
##	[1405]	51	-34	-173	-301	-307	-180	-23	77	127	-8	-310	-247	28
##	[1418]	229	257	225	237	264	239	117	-44	-193	-269	-339	-379	-451
##	[1431]	-477	-377	-466	-243	178	365	514	553	367	219	166	130	-82
##	[1444]	-113	45	73	-141	-235	-100	128	242	196	48	55	222	326
##	[1457]	291	167	-64	-224	-239	-256	-192	-129	-84	-195	-282	-158	-27
##	[1470]	-122	-97	79	256	298	167	13	-23	-6	38	25	-129	-166
##	[1483]	-57	6	-188	-231	-139	-4	65	59	112	166	296	332	296
##	[1496]	241	181	112	11	-135	-210	-170	-127	-92	-61	-47	-20	-104
##	[1509]	-451	-594	-306	98	361	478	450	281	104	40	103	141	-32
##	[1522]	-308	-315	-246	-211	-149	14	56	7	-41	-16	100	164	159
##	[1535]	0	-74	-39	-3	97	166	164	196	214	219	163	107	26
##	[1548]	-23	-87	-136	-140	-137	-159	-210	-269	-221	-120	-32	2	27
##	[1561]	9	-59	-52	6	78	114	124	85	61	37	22	1	3
##	[1574]	5	6	0	-5	-2	-11	-31	-25	-9	-5	3	10	13
##	[1587]	6	2	-8	0	-22	-37	-46	-49	-78	-88	-72	-57	-20
##	[1600]	19	56	91	105	108	102	94	97	55	10	-5	0	-8
##	[1613]	-21	-26	-13	-19	-17	-11	-13	-38	-65	-11	29	23	5
##	[1626]	-28	-20	-12	-4	-5	5	14	10	-6	0	0	-1	-4

##	[1639]	-6	-4	-2	-1	-11	-6	-6	-4	-4	-13	-4	-2	-9
##	[1652]	-7	-6	-5	-8	-1	-1	-4	-5	-2	0	6	2	0
##	[1665]	2	-3	-9	-7	-8	-5	-6	-13	-8	-12	-6	-8	-2
##	[1678]	0	0	0	-1	-7	0	0	-1	-3	-4	-5	-8	-6
##	[1691]	-1	0	-5	-3	0	0	2	-2	-4	-4	1	-7	0
##	[1704]	6	4	6	-1	0	-2	-4	-8	0	-9	-3	-7	0
##	[1717]	-2	-3	-8	-9	-5	-1	0	2	1	0	6	-3	7
##	[1730]	-5	0	1	4	0	2	0	3	0	-4	-3	-4	-1
##	[1743]	-3	-1	0	-5	1	0	1	-3	-1	0	0	-1	5
##	[1756]	-1	-1	-5	-6	-2	2	0	2	4	3	-6	-5	0
##	[1769]	-5	0	0	-1	-2	0	0	0	-3	-5	-5	-1	-3
##	[1782]	0	-4	-7	-6	-2	-9	-5	-2	-1	-10	-2	-9	-8
##	[1795]	-6	-10	-8	-11	-12	-7	4	5	0	3	1	-4	0
##	[1808]	0	0	6	2	6	-1	-2	-3	-3	-5	0	-4	-2
##	[1821]	0	0	0	-2	0	-1	-1	1	-1	-4	-12	-9	-7
##	[1834]	-9	-7	-1	0	0	0	6	0	0	-6	3	-6	4
##	[1847]	-11	-6	-1	1	6	8	12	6	9	-3	0	-6	-5
##	[1860]	3	-1	1	2	-2	0	0	1	-2	-4	-4	-4	-5
##	[1873]	3	0	2	5	2	0	1	-1	-1	-5	0	-3	-3
##	[1886]	0	-6	2	-3	3	3	8	6	6	9	0	2	0
##	[1899]	3	-2	-1	-4	-16	-16	-6	-2	-2	9	13	12	17
##	[1912]	16	11	0	-6	-8	-12	-9	-14	-10	0	0	7	13
##	[1925]	0	13	14	7	2	0	0	-6	-6	-6	0	-2	-4
##	[1938]	1	0	-5	-3	-9	-7	-8	4	10	-2	5	1	-1
##	[1951]	1	0	-2	1	-4	-5	-12	-8	-2	-7	-4	1	3
##	[1964]	0	0	0	4	2	-5	5	5	6	0	0	-3	-6
##	[1977]	-4	-7	-2	-1	-1	2	-8	-5	0	3	2	1	0
##	[1990]	0	2	4	1	0	-3	0	5	-1	7	2	2	0
##	[2003]	7	3	3	3	-4	-2	0	-7	-7	-5	-1	1	-3
##	[2016]	0	0	0	2	2	-1	0	-1	3	0	0	-1	-1
##	[2029]	-1	0	0	-3	-6	-3	2	5	-9	-9	-2	8	12
##	[2042]	4	12	8	2	4	6	6	0	-2	-3	0	2	9
##	[2055]	6	2	0	2	-26	-49	-60	-27	32	64	83	69	33
##	[2068]	-9	-14	9	63	63	-57	-90	-16	72	104	34	-191	-321
##	[2081]	-291	-151	27	132	156	109	90	95	84	80	85	61	73
##	[2094]	97	81	72	59	0	-41	23	-51	-268	-444	-293	35	278
##	[2107]	326	160	76	29	-84	-194	-244	-258	-210	-174	-59	2	21
##	[2120]	60	-15	13	139	249	232	-217	-608	-442	151	659	766	623
##	[2133]	469	150	-190	-265	-107	51	-1	-43	-133	-215	-437	-612	-313
##	[2146]	-72	40	179	323	347	331	323	252	141	14	-76	-117	-98
##	[2159]	-95	-236	-333	-254	-111	-5	39	43	17	18	67	81	83
##	[2172]	93	95	66	57	54	48	6	-213	-262	-63	38	14	-23
##	[2185]	33	164	330	347	268	104	-46	-107	-170	-213	-204	-251	-317
##	[2198]	-228	-55	50	57	27	-65	-159	-135	4	30	-67	-151	-74
##	[2211]	18	99	166	147	146	192	191	212	237	232	182	66	-20
##	[2224]	-72	-164	-157	-109	-29	47	58	46	5	-3	10	29	22
##	[2237]	-2	-20	-42	-26	-10	-66	-109	-124	-112	-72	-81	-119	-71
##	[2250]	-31	-21	15	34	45	8	-31	-62	-27	22	90	59	42
##	[2263]	42	81	100	87	59	37	13	0	-57	-140	-192	-184	-190
##	[2276]	-121	-29	52	61	-9	0	49	118	135	130	99	63	57
##	[2289]	56	45	41	34	27	2	-4	-17	-28	-34	-23	-21	-6
##	[2302]	0	2	4	0	0	5	8	6	0	0	-13	-5	-4
##	[2315]	-10	-7	0	-2	-6	0	-6	-12	-11	-11	-10	-12	-9
##	[2328]	-7	-3	-10	-12	-12	-9	0	0	-1	-4	0	-9	-3

##	[2341]	-13	-5	-11	-7	-1	-5	0	6	-4	-4	-8	0	3
##	[2354]	-3	-6	-2	-7	-9	-2	-4	-5	0	2	-2	-6	-7
##	[2367]	-6	-3	0	-1	-5	-6	-2	0	5	2	4	-2	1
##	[2380]	-4	3	-3	-10	0	3	0	1	-6	-1	0	-8	-8
##	[2393]	-5	-1	0	-1	1	-3	1	6	0	-1	3	1	6
##	[2406]	1	4	0	4	0	3	0	-4	-2	-1	0	0	-2
##	[2419]	0	-2	-6	-5	-6	-4	-2	4	0	0	0	0	1
##	[2432]	5	1	5	2	-1	1	2	-3	-2	3	-4	0	4
##	[2445]	5	0	-2	0	3	0	0	-4	0	1	-3	1	-1
##	[2458]	-6	-6	-4	-1	0	-4	0	-6	-9	-12	-14	-9	-13
##	[2471]	-8	-6	0	7	8	5	4	2	-3	-2	-3	-5	-7
##	[2484]	-7	0	-1	7	0	-7	-3	0	-3	0	-3	0	-9
##	[2497]	-5	-2	-5	0	-3	-9	-9	-3	-11	-6	-1	-5	-3
##	[2510]	-6	-5	-7	-3	-2	3	8	6	6	0	-1	-5	-1
##	[2523]	0	-2	-7	-2	-7	5	2	2	0	-2	0	-9	-4
##	[2536]	-3	0	0	-1	-2	-2	-6	-5	-5	-6	-2	2	1
##	[2549]	1	4	1	-5	4	6	0	0	0	-1	0	6	0
##	[2562]	1	4	1	0	-1	-11	-6	-6	1	1	-1	-4	-3
##	[2575]	1	8	1	5	0	0	5	3	4	0	0	-3	-3
##	[2588]	-3	-9	-2	-1	-4	-5	-9	-7	-11	-1	-5	1	1
##	[2601]	0	-4	3	1	11	0	6	10	5	6	-1	-4	0
##	[2614]	-5	-4	-3	0	-10	-12	-3	-8	-9	4	0	0	3
##	[2627]	-5	0	5	6	2	6	0	6	0	-3	0	-2	0
##	[2640]	5	0	-4	0	0	-2	-2	-5	-6	0	4	0	-4
##	[2653]	-1	-12	-6	-1	-3	-4	-1	-3	3	0	4	1	0
##	[2666]	2	7	7	3	3	0	-5	-3	-1	0	-2	2	3
##	[2679]	6	-2	-5	-2	5	0	1	3	5	10	4	3	2
##	[2692]	-1	-3	3	-2	2	3	2	0	0	0	-1	-6	3
##	[2705]	1	-1	-3	-9	-1	0	7	0	2	6	6	5	3
##	[2718]	7	1	8	14	5	3	2	-3	-5	2	4	-3	2
##	[2731]	1	-4	0	2	-7	-2	3	3	11	24	-22	-57	-60
##	[2744]	-29	8	47	64	59	41	33	33	34	-5	-36	-28	8
##	[2757]	82	101	33	-55	-54	18	-10	-68	-80	-51	-27	-14	31
##	[2770]	17	-134	-123	-31	17	30	55	22	39	59	100	123	169
##	[2783]	204	203	153	14	-190	-282	-233	-150	-110	-83	-37	-53	-122
##	[2796]	59	310	311	118	49	1	-40	-65	-34	-30	-43	-109	-185
##	[2809]	-271	-200	-159	-154	-34	-11	58	243	343	276	215	125	77
##	[2822]	109	108	-66	-320	-430	-191	78	230	222	153	135	-24	-182
##	[2835]	-163	-41	95	133	29	-190	-215	-103	-40	-2	118	236	243
##	[2848]	181	143	104	87	94	72	53	-30	-121	-186	-202	-367	-590
##	[2861]	-479	-123	214	373	329	120	58	37	-239	-435	-272	4	237
##	[2874]	255	238	212	122	86	-65	-91	13	-82	-172	-44	166	380
##	[2887]	361	299	245	99	-92	-260	-318	-205	-34	89	109	60	-13
##	[2900]	-103	-119	-61	-6	-3	-24	-46	-16	41	18	27	37	38
##	[2913]	37	12	-17	-93	-168	-148	-134	-56	48	101	94	60	25
##	[2926]	14	-69	-49	-95	-190	-266	-222	-70	125	164	177	101	68
##	[2939]	84	99	109	108	89	89	78	19	-125	-185	-156	-164	-159
##	[2952]	-149	-73	-8	77	174	216	213	174	146	93	19	-40	-149
##	[2965]	-174	-128	-54	46	145	181	163	102	41	0	-17	-24	-38
##	[2978]	-34	-31	-40	-49	-40	-4	1	-3	-22	-55	-74	-59	-54
##	[2991]	-42	-15	0	21	31	29	18	16	14	1	-3	1	0
##	[3004]	-6	-2	0	0	0	4	0	-1	-9	-4	3	0	5
##	[3017]	1	2	0	0	1	0	-4	-16	-8	-9	-9	-3	0
##	[3030]	-1	-2	-3	0	-6	-4	-5	-4	-6	0	-4	0	-4

##	[3043]	-5	-3	-4	-4	-9	-2	-10	-6	-6	-7	-13	-1	-2
##	[3056]	-2	-6	-2	-13	-5	-7	-10	-7	0	-12	-7	0	-1
##	[3069]	-4	2	0	5	2	-7	-4	-6	0	0	-3	0	-5
##	[3082]	-5	-1	-11	-15	-6	-12	-6	-2	-3	-7	-8	-5	-1
##	[3095]	-1	0	0	0	1	-3	-6	-1	0	0	0	-13	-2
##	[3108]	-4	-1	-1	-3	3	1	-6	-6	-4	-2	-1	1	2
##	[3121]	-3	-5	-1	2	-5	-4	-6	0	1	-1	-1	5	-3
##	[3134]	0	2	5	4	-1	-4	-2	-6	-7	0	-2	0	0
##	[3147]	4	-6	-1	-10	-2	-3	-1	0	1	-1	0	-7	-3
##	[3160]	0	-4	-2	0	-7	-10	-5	-1	-3	-7	0	-2	2
##	[3173]	2	0	0	0	0	0	1	1	-2	-1	-6	0	-3
##	[3186]	2	-7	-10	0	-2	1	0	0	-3	-1	-4	-2	-8
##	[3199]	-7	-8	-1	1	-2	-4	-5	-3	-2	0	0	-1	-1
##	[3212]	0	1	10	4	4	0	-5	-9	0	-2	-4	1	1
##	[3225]	0	2	-3	-4	-3	-2	-6	-5	0	-1	-2	0	5
##	[3238]	0	6	2	-2	3	0	-2	-2	-8	-1	-5	-1	-10
##	[3251]	-6	4	0	5	-2	0	-2	-2	0	-1	-1	-6	-7
##	[3264]	-9	-5	0	5	4	10	6	5	0	-1	-2	-3	-10
##	[3277]	-1	0	-2	3	-1	0	5	-1	-1	-7	-6	-2	-2
##	[3290]	-2	-1	-2	0	0	-2	-1	-5	1	2	6	0	-2
##	[3303]	-3	2	2	0	0	6	0	4	0	0	3	0	1
##	[3316]	0	-7	-2	3	-1	0	0	-2	0	1	6	0	7
##	[3329]	4	-2	4	2	-7	-7	-8	0	0	0	-2	2	0
##	[3342]	-4	2	-6	-9	-2	0	-4	0	0	0	2	-1	0
##	[3355]	0	-1	0	1	0	2	-2	-3	5	4	5	4	5
##	[3368]	-2	2	2	6	7	10	10	0	0	4	5	1	0
##	[3381]	-6	-10	-9	-4	-7	-8	-14	-4	-1	-3	0	0	1
##	[3394]	-4	0	12	8	0	6	0	1	-1	1	-2	-2	-5
##	[3407]	-7	-3	-2	0	-2	2	5	13	8	0	0	5	0
##	[3420]	9	6	18	29	-15	-49	-54	-40	-9	6	42	89	128
##	[3433]	128	102	56	1	-49	-87	-77	-47	-11	-11	20	-44	-193
##	[3446]	-273	-187	-72	40	18	-40	-39	23	107	150	166	157	175
##	[3459]	214	185	113	36	32	71	88	70	53	1	-50	-112	-267
##	[3472]	-492	-505	-309	-38	79	106	103	120	189	126	106	132	119
##	[3485]	68	-83	-164	-121	-63	-57	-12	50	87	51	-81	-87	106
##	[3498]	241	-130	-332	-215	-39	66	128	199	210	125	30	-1	31
##	[3511]	121	197	222	129	-59	-270	-275	-245	-210	-269	-396	-298	-28
##	[3524]	150	215	262	347	421	334	104	-32	-61	-16	36	80	38
##	[3537]	-56	-281	-232	-12	86	46	-18	-52	-108	-147	-207	-196	-4
##	[3550]	230	189	102	94	143	185	140	63	55	-81	-228	-187	-105
##	[3563]	-163	-220	-103	111	201	183	67	31	92	-2	54	171	225
##	[3576]	135	-57	-194	-199	-394	-270	-27	86	141	168	113	58	8
##	[3589]	-122	-135	-124	-46	22	62	47	-15	-48	-51	41	148	185
##	[3602]	141	93	27	0	-72	-116	-124	-121	-156	-224	-217	-70	119
##	[3615]	209	181	101	6	-36	-53	-62	-76	-104	-109	-86	-72	-39
##	[3628]	88	210	229	156	61	-137	-134	49	261	350	330	211	126
##	[3641]	103	72	17	-64	-149	-196	-186	-165	-162	-123	-70	-29	-6
##	[3654]	6	8	0	-19	-21	-18	-22	-18	0	8	11	12	6
##	[3667]	10	4	0	19	13	0	6	0	-6	-2	9	9	2
##	[3680]	-13	-18	-11	-4	3	-3	3	0	-4	4	4	0	-1
##	[3693]	3	8	2	5	0	-16	-11	-12	-12	-8	-4	-1	-2
##	[3706]	-1	-4	-4	0	-5	-6	-4	-7	-4	3	-1	-3	-3
##	[3719]	0	0	-4	0	-2	0	-5	-7	-8	-4	-6	0	0
##	[3732]	5	-3	6	0	-5	-1	-2	0	-3	-4	-8	-4	-15



##	[3745]	-3	-3	0	-4	0	7	-2	-4	1	6	2	1	0
##	[3758]	-2	0	-7	-1	0	2	-6	0	-4	-1	-2	2	-10
##	[3771]	-6	-6	-1	-6	-11	-4	-10	1	-6	-4	2	3	0
##	[3784]	-1	-1	0	0	0	-4	0	2	-7	-8	3	2	-3
##	[3797]	0	3	3	5	0	-4	-2	-3	-7	0	-2	-8	-1
##	[3810]	-8	0	-1	-1	1	2	0	-1	1	0	0	-1	-5
##	[3823]	-2	-1	-3	0	-2	-2	-12	-9	-4	-7	-11	-7	0
##	[3836]	-3	2	-7	1	0	6	-4	3	0	0	-6	-11	-6
##	[3849]	-4	-8	-6	-5	0	2	-2	-3	-7	-4	-3	-7	-8
##	[3862]	-10	-4	-1	-2	-3	1	0	-2	-7	0	-1	-1	0
##	[3875]	2	0	-1	-6	-3	-10	-4	0	11	1	11	-3	-3
##	[3888]	-7	-7	-15	-7	-11	-3	-6	1	0	4	6	0	3
##	[3901]	0	1	0	-1	-3	0	-4	-8	-5	-4	3	4	10
##	[3914]	3	-3	1	3	6	0	2	0	4	7	2	5	1
##	[3927]	-1	-2	0	-5	-6	-6	2	-1	-2	-1	0	0	0
##	[3940]	0	-2	4	0	4	2	0	-5	1	4	-2	-6	-5
##	[3953]	-4	0	0	9	3	4	4	0	2	0	-6	-9	-7
##	[3966]	-1	-8	-3	0	2	4	10	-5	-1	0	4	0	-4
##	[3979]	-7	-6	-8	-1	-5	-2	-4	-2	-3	0	1	8	3
##	[3992]	-3	4	0	-1	2	0	4	-10	-4	-8	-8	-2	-4
##	[4005]	-1	-7	-4	-11	-8	-7	-5	-2	-1	11	0	0	2
##	[4018]	-1	0	0	-1	-6	-10	-5	-15	-11	0	0	4	2
##	[4031]	7	7	1	0	0	2	-1	0	0	0	0	4	-3
##	[4044]	-4	1	1	0	1	0	2	-3	-1	3	2	5	6
##	[4057]	4	4	-5	-1	3	7	4	5	6	0	2	2	0
##	[4070]	2	0	6	2	-2	6	0	5	3	7	6	4	-4
##	[4083]	-2	0	2	1	0	0	-4	0	0	0	1	7	-1
##	[4096]	5	0	1	4	3	1	6	9	9	11	9	9	11
##	[4109]	-3	-5	-8	-16	-8	0	-12	-20	-34	-37	3	50	78
##	[4122]	56	27	-10	-53	-70	-75	-83	-70	-53	5	69	105	110
##	[4135]	104	83	53	-81	-134	-141	-128	-120	-52	30	120	221	251
##	[4148]	193	44	-93	-127	-74	39	51	51	8	34	8	53	63
##	[4161]	-7	-175	-173	-50	77	107	106	31	-135	-266	-184	-220	-134
##	[4174]	64	214	144	24	-55	-116	-147	-126	-36	3	-282	-436	-91
##	[4187]	328	532	512	405	240	83	-104	-231	-189	-50	94	153	166
##	[4200]	-1	-206	-197	-105	-22	-35	-2	3	36	-13	-16	0	79
##	[4213]	88	58	39	-30	-1	87	63	-73	-35	59	154	204	153
##	[4226]	28	-20	-225	-295	-140	-13	-21	-208	-230	-121	-115	-30	90
##	[4239]	118	-39	-106	-36	63	179	89	100	257	399	400	314	167
##	[4252]	8	-115	-194	-221	-327	-420	-264	-101	-12	73	-214	-181	-41
##	[4265]	126	284	419	419	283	98	-70	-154	-134	-70	-121	-198	-216
##	[4278]	-131	-23	21	35	59	137	133	81	2	-16	0	35	56
##	[4291]	29	-161	-264	-271	-185	-35	92	99	16	34	135	195	215
##	[4304]	200	147	58	-131	-191	-208	-198	-135	-84	-56	-34	45	123
##	[4317]	103	35	-14	2	60	111	118	101	89	51	19	-2	-63
##	[4330]	-117	-94	-20	41	76	54	39	21	-46	-42	-23	16	40
##	[4343]	43	26	12	4	54	77	47	16	-22	-37	-61	-71	-61
##	[4356]	-60	-58	-48	-32	-19	0	11	13	12	11	8	9	2
##	[4369]	4	0	0	0	0	2	10	6	4	2	0	0	5
##	[4382]	-4	-4	-3	-3	0	-11	0	-5	-4	-3	-6	-1	-2
##	[4395]	-10	-10	-7	-10	-4	-6	0	-6	0	-8	-13	-12	-6
##	[4408]	1	0	-4	0	1	6	-4	-5	-4	-5	-6	-12	-6
##	[4421]	-8	-5	3	0	0	-2	-4	-9	-12	-11	-10	-9	-10
##	[4434]	-3	1	4	-4	-1	0	-4	-2	-4	-2	3	-1	-2

##	[4447]	3	-8	1	0	2	3	-4	-2	-6	-6	-4	-6	-9
##	[4460]	-3	-4	-7	-4	-5	-3	-6	-6	-11	0	0	-2	4
##	[4473]	-7	-8	-2	-9	-2	-5	-2	1	10	10	3	0	6
##	[4486]	-3	-2	-2	0	4	1	6	-5	-2	-6	1	-3	0
##	[4499]	2	3	-3	2	0	-5	-4	-1	-3	-2	-6	-6	0
##	[4512]	-2	0	2	4	0	-2	-8	0	-4	-3	-3	-4	0
##	[4525]	0	-2	0	-3	-7	-2	-15	-10	-12	-11	-4	-6	-11
##	[4538]	-9	-9	-7	-2	3	-2	5	2	4	1	0	-2	-7
##	[4551]	-8	0	0	-6	-8	0	-3	-7	-2	-10	-13	-6	-4
##	[4564]	-8	2	-1	1	0	0	-2	1	0	5	-3	0	-11
##	[4577]	-5	-4	0	0	0	4	2	6	-2	1	-1	2	-1
##	[4590]	-5	-4	4	1	1	0	1	-4	1	0	-3	-3	-7
##	[4603]	-8	0	0	3	2	7	0	2	0	-4	0	2	3
##	[4616]	-2	3	4	4	2	3	0	-4	-6	1	2	-4	0
##	[4629]	1	4	6	0	5	3	-4	0	7	7	-2	0	1
##	[4642]	1	0	0	-2	-1	-10	-7	-5	-1	-2	0	-5	-8
##	[4655]	0	-4	0	0	-1	-1	-4	0	1	0	5	6	0
##	[4668]	0	7	-1	2	6	-1	-5	-5	-10	-5	-3	-2	1
##	[4681]	-2	0	-3	6	6	2	-1	-1	-3	-1	-6	-4	-2
##	[4694]	4	0	-4	4	5	3	1	2	-2	-9	-13	-4	-14
##	[4707]	-5	0	-8	-8	-2	-5	2	0	-3	1	3	0	0
##	[4720]	0	-2	1	0	1	5	1	1	2	0	1	0	6
##	[4733]	1	-4	1	0	2	0	6	0	-1	2	-2	3	6
##	[4746]	1	0	-5	-2	0	0	0	0	2	3	1	0	-5
##	[4759]	1	1	-1	1	-4	0	-1	-3	-2	-5	-5	2	-2
##	[4772]	3	0	0	0	3	4	6	4	1	1	2	4	5
##	[4785]	10	1	-4	3	10	4	-2	-12	-5	9	8	8	7
##	[4798]	-10	-50	-58	-44	-11	22	49	45	46	50	63	53	53
##	[4811]	14	-12	-12	-5	-22	-32	-89	-102	-97	-262	-285	-138	57
##	[4824]	213	258	218	178	204	200	145	90	70	28	-8	-42	-78
##	[4837]	-36	-5	-38	-160	-233	-178	-91	-52	-34	-120	-106	-29	92
##	[4850]	143	101	0	-160	-122	107	302	239	-14	-85	-97	-27	-145
##	[4863]	-206	-74	54	0	-3	14	91	90	101	178	182	161	90
##	[4876]	-192	-434	-349	-80	185	208	148	90	45	-79	-49	79	101
##	[4889]	77	75	21	-107	-210	-169	-51	-69	-111	-80	44	122	262
##	[4902]	366	383	344	187	59	-14	-197	-491	-558	-447	-241	-57	30
##	[4915]	12	77	152	185	185	-40	-288	-219	62	287	370	388	257
##	[4928]	37	10	80	0	-98	-119	-211	-356	-422	-289	-37	124	126
##	[4941]	107	59	-34	-121	-98	17	83	99	105	165	262	322	205
##	[4954]	61	-59	-127	-138	-75	-12	33	45	81	96	138	123	51
##	[4967]	-34	-87	-98	-83	-74	-150	-251	-224	-185	-115	-59	-42	-30
##	[4980]	59	48	-95	-221	-65	117	206	231	175	117	92	66	57
##	[4993]	10	-47	-164	-146	-121	-29	66	158	199	168	82	-26	-68
##	[5006]	-42	22	104	146	140	49	-46	-119	-140	-70	-34	-20	-35
##	[5019]	-44	-20	-4	-3	-36	-39	-26	-20	-16	-28	-36	-32	-34
##	[5032]	-12	12	27	29	24	12	15	10	14	12	10	8	0
##	[5045]	-2	-2	-2	1	-5	-4	-3	-4	4	3	9	10	3
##	[5058]	2	0	-5	-2	0	-2	-10	-4	-12	-9	-2	-11	-8
##	[5071]	-3	-5	0	-9	-7	-2	-6	-5	-10	0	-3	-1	-2
##	[5084]	-2	6	0	1	-1	-4	-4	-13	-12	-7	-2	0	-10
##	[5097]	-3	0	-4	-5	-5	-6	-1	-4	2	0	1	-3	-2
##	[5110]	-6	-2	-4	-2	0	-4	4	-9	-12	-6	-3	-4	-3
##	[5123]	0	0	3	-5	-8	-7	-8	-13	-5	-3	-9	1	-13
##	[5136]	-9	-8	-4	0	5	0	-2	0	-3	0	0	1	4

##	[5149]	1	-3	0	0	0	0	-2	0	-4	-7	-8	-3	-1
##	[5162]	-5	-1	-5	0	-1	-4	0	-2	-2	-7	-6	-12	-6
##	[5175]	-3	1	5	-5	-3	0	0	1	9	6	0	4	0
##	[5188]	0	1	-6	-2	-6	-6	-5	0	0	0	1	1	-7
##	[5201]	-3	-8	-12	-11	-16	-12	-13	-14	-11	-8	1	1	-8
##	[5214]	1	2	5	1	0	-7	-8	-5	-8	0	-10	-6	-7
##	[5227]	-8	-9	-4	-6	-6	-2	-2	-7	0	-6	-6	-5	-6
##	[5240]	6	-5	3	0	0	-8	-7	-8	-5	-2	-3	1	-2
##	[5253]	4	3	0	0	0	1	1	3	-2	0	-4	5	0
##	[5266]	4	0	0	-6	2	-5	-1	-6	0	2	-5	3	0
##	[5279]	-10	0	-6	-5	-7	-2	-10	4	0	6	2	0	0
##	[5292]	5	5	3	3	1	6	-3	-1	-1	0	1	7	3
##	[5305]	4	2	4	6	-1	-4	-2	-2	0	-2	-6	-6	-5
##	[5318]	-16	-9	-11	4	0	-10	-4	6	0	6	11	16	12
##	[5331]	8	-1	-2	1	-1	0	-5	-7	-12	-3	-8	-6	2
##	[5344]	2	7	5	5	0	-2	-4	-7	-1	-5	-4	3	0
##	[5357]	1	1	6	2	9	2	0	-2	-5	-6	-10	-2	-4
##	[5370]	-3	-7	-5	1	0	-1	-2	1	-2	-2	-1	0	5
##	[5383]	4	-1	-7	0	-10	-9	-8	-3	-1	6	-1	0	-7
##	[5396]	-6	-5	-6	-3	0	-1	5	4	7	0	-4	0	1
##	[5409]	-2	-1	-7	-3	-4	-3	-7	-5	1	0	0	0	-2
##	[5422]	11	-6	0	0	4	0	-2	-2	0	0	-2	0	-3
##	[5435]	-7	-7	-4	-3	0	-6	-5	0	-2	0	-9	0	0
##	[5448]	0	-3	1	-3	0	-5	-4	-2	-1	-5	-8	0	-5
##	[5461]	-3	-7	0	-6	-2	-3	-6	-7	1	-6	-6	-4	0
##	[5474]	-1	0	7	1	11	8	11	10	8	10	4	5	12
##	[5487]	7	-5	-4	-14	-68	-88	-60	-20	23	34	40	54	51
##	[5500]	33	28	32	34	24	6	-24	-59	-40	15	28	-86	-126
##	[5513]	-26	66	91	2	-34	12	78	117	111	132	139	114	66
##	[5526]	69	21	-31	-82	-164	-239	-367	-251	-64	86	185	195	179
##	[5539]	143	122	115	14	-228	-240	-49	115	83	-147	-590	-758	-354
##	[5552]	222	472	502	426	226	111	45	26	12	-44	-176	-306	-269
##	[5565]	-96	17	129	225	323	349	303	101	11	44	133	65	-79
##	[5578]	-195	-262	-382	-427	-299	-175	0	150	154	120	151	213	183
##	[5591]	-117	-268	-81	158	324	275	64	-66	-150	-250	-183	-70	-98
##	[5604]	-173	-375	-374	-66	319	570	542	338	124	42	0	-19	-4
##	[5617]	87	163	189	210	195	91	-27	-2	24	-131	-217	-162	-80
##	[5630]	-170	-184	-138	-86	-130	-89	5	13	39	3	-23	-74	-168
##	[5643]	-306	-280	-230	-235	-124	82	182	216	197	133	161	241	246
##	[5656]	188	87	45	-10	-23	8	32	-13	-154	-379	-289	-46	143
##	[5669]	229	211	142	71	14	0	-5	-10	-25	-35	-38	-42	-63
##	[5682]	-86	-125	-168	-137	-67	4	81	133	124	109	66	0	-64
##	[5695]	-111	-109	-82	-26	4	26	48	81	93	35	-45	-69	-27
##	[5708]	9	33	46	47	14	-73	-124	-96	-30	87	164	173	125
##	[5721]	80	40	22	4	-16	-25	-28	-17	-22	-15	-18	-17	-11
##	[5734]	-8	-12	-10	-9	-1	-3	-3	-5	-9	-10	-18	-15	-7
##	[5747]	-6	-8	-6	-1	0	-4	-1	-1	-10	-11	-6	-1	0
##	[5760]	1	2	0	-4	-7	-2	-14	-16	-18	-15	-8	-10	-7
##	[5773]	-3	-10	-4	-2	0	-3	0	-5	0	-5	-1	-4	-2
##	[5786]	-5	-8	-7	-2	-3	-4	-4	-3	-2	-2	-6	-5	5
##	[5799]	1	-2	-2	-7	4	0	-1	0	0	-2	3	1	0
##	[5812]	-2	0	-4	-1	-5	-7	-5	-3	-3	-8	-8	-1	-8
##	[5825]	0	-6	-5	-11	-2	-7	-10	-2	0	0	-3	-1	0
##	[5838]	1	0	4	6	0	2	-1	8	0	-2	-2	-10	-6

##	[5851]	-7	1	-2	0	0	2	0	-3	-2	0	-4	-2	-2
##	[5864]	-7	-1	-3	0	5	1	4	0	2	3	-4	-4	-4
##	[5877]	-8	3	0	0	-6	-6	-2	-4	0	-3	-5	0	-1
##	[5890]	-1	0	-2	-8	-14	-5	-5	-2	-5	-4	-8	-1	-8
##	[5903]	-6	-2	0	0	-3	-2	-2	0	0	-6	-8	2	3
##	[5916]	4	4	6	2	0	3	3	-2	-4	-5	-3	-8	-6
##	[5929]	-3	0	-7	-1	-6	-9	-3	-5	0	1	2	-2	-2
##	[5942]	-10	-7	-10	-1	-5	-6	-1	-1	5	1	2	0	0
##	[5955]	2	3	0	0	4	2	0	0	0	-6	-1	0	0
##	[5968]	0	0	-2	0	-1	0	-3	4	-6	-5	-3	0	1
##	[5981]	-9	-3	6	4	8	11	2	1	-6	0	-1	6	-10
##	[5994]	-1	-2	1	5	6	8	2	2	-4	-2	-1	-6	-4
##	[6007]	0	1	-2	0	0	3	-1	-5	0	2	0	-4	-2
##	[6020]	4	-9	1	0	0	-1	5	1	3	1	0	2	0
##	[6033]	-4	-1	8	6	6	7	1	2	-3	-4	-1	5	2
##	[6046]	0	-1	-2	3	0	0	-4	-11	-11	-7	-2	-9	-4
##	[6059]	2	0	-8	1	0	-1	-12	3	3	1	-2	0	0
##	[6072]	-5	0	0	-9	-4	-2	0	6	-2	0	0	9	8
##	[6085]	4	2	2	-7	-2	-1	-6	-9	-6	-11	-5	-3	-6
##	[6098]	0	0	1	-3	-4	3	2	0	1	3	8	0	0
##	[6111]	-1	-2	0	0	0	-2	0	0	-1	-3	2	3	-3
##	[6124]	-5	-4	-7	2	-5	-3	0	0	0	-2	1	-6	0
##	[6137]	-2	-5	-2	1	0	-1	0	-5	0	-4	-4	-6	-2
##	[6150]	0	-5	-8	3	-1	-5	-2	2	0	2	7	7	7
##	[6163]	5	5	-1	5	3	4	5	9	7	5	-7	-17	-20
##	[6176]	-12	-19	-34	-33	9	34	60	59	51	20	2	27	34
##	[6189]	16	-1	-107	-127	-94	-41	0	1	-63	-83	-71	-3	5
##	[6202]	46	113	182	161	41	-41	-62	-44	-17	61	104	120	107
##	[6215]	120	115	60	12	32	67	-9	-189	-307	-211	-144	-179	-71
##	[6228]	102	210	218	171	116	89	81	7	-58	-97	-187	-160	-117
##	[6241]	-124	-179	-214	-166	-131	-152	3	151	85	-9	0	38	128
##	[6254]	67	115	319	328	322	127	-154	-244	-193	-104	52	139	237
##	[6267]	229	129	-94	-199	-267	-337	-226	-62	74	137	104	117	130
##	[6280]	137	104	30	-52	-103	-87	-72	-159	-195	-64	72	220	216
##	[6293]	159	-1	-40	71	130	-79	-247	-118	43	132	79	-82	-168
##	[6306]	-107	-34	-153	-373	-282	-42	134	229	216	183	208	122	72
##	[6319]	100	187	233	107	-21	-62	-151	-280	-263	-93	120	257	301
##	[6332]	259	176	140	93	40	-31	-102	-140	-180	-145	-146	-178	-161
##	[6345]	-216	-172	-90	-25	-72	-15	56	112	116	129	144	116	94
##	[6358]	91	78	80	20	-80	-109	-106	-238	-268	-97	102	145	61
##	[6371]	-35	-122	-224	-284	-313	-207	-37	163	271	308	278	238	207
##	[6384]	151	111	72	32	2	-15	-13	7	64	76	39	-54	-112
##	[6397]	-125	-94	-47	-15	-12	-14	-19	-15	-14	-4	7	0	2
##	[6410]	7	0	-7	0	-6	-4	4	0	-1	-2	0	1	3
##	[6423]	8	4	1	-1	-6	-6	-4	-1	-8	0	-3	-3	-2
##	[6436]	-1	0	-2	1	0	2	3	0	1	-2	-2	-2	-8
##	[6449]	-11	-10	-9	-3	-3	-2	-3	4	0	1	0	-4	0
##	[6462]	0	-4	0	-1	-6	-5	0	-8	-8	-6	3	6	-1
##	[6475]	0	-11	-5	-5	-3	-7	0	0	3	-1	0	9	-1
##	[6488]	-7	-1	-4	-2	-8	-3	-1	-5	-6	-4	-6	0	1
##	[6501]	-7	-1	1	-5	-1	-5	-14	-7	-11	-2	-2	-2	-1
##	[6514]	-2	0	0	2	9	2	2	-6	-2	0	-1	-3	0
##	[6527]	0	-10	-14	0	5	5	8	2	-2	-3	-2	-2	0
##	[6540]	0	-7	-3	-3	-4	0	0	-2	0	-3	3	-2	-6

##	[6553]	-4	0	0	1	0	-3	-5	0	-1	3	0	-2	3
##	[6566]	-1	-5	0	-2	-6	-9	-7	-5	-9	-9	-8	-13	-9
##	[6579]	-15	-4	-2	-5	-8	-11	-18	0	0	8	9	2	0
##	[6592]	-2	0	0	-5	-1	-13	0	-8	-6	-1	-5	-7	-4
##	[6605]	-13	-2	0	-8	0	-9	0	-2	-4	0	0	-5	-3
##	[6618]	-6	0	-1	0	0	-3	0	-2	-8	-5	0	-9	-4
##	[6631]	-2	-1	2	1	-6	0	0	3	5	2	0	6	0
##	[6644]	6	0	6	-3	-3	4	0	-13	-3	-7	-6	-7	-5
##	[6657]	-5	-7	0	1	2	2	6	7	9	5	4	1	-1
##	[6670]	-8	0	0	-3	0	-5	0	-1	-3	-7	-2	-3	3
##	[6683]	9	2	-5	0	-4	-1	2	2	-2	-3	2	0	3
##	[6696]	-2	7	0	6	7	1	0	-2	0	0	-6	4	-2
##	[6709]	8	0	-3	9	-3	-1	8	2	3	0	3	2	8
##	[6722]	1	4	1	-1	2	0	5	3	0	-1	0	-5	-9
##	[6735]	-6	0	-5	1	0	-2	4	4	2	4	4	0	0
##	[6748]	0	3	1	0	0	0	3	-1	0	-3	0	0	2
##	[6761]	1	7	0	0	0	-4	0	-2	2	-5	3	6	-1
##	[6774]	5	8	0	-4	2	5	0	5	0	0	0	3	0
##	[6787]	6	3	5	6	1	0	2	4	-3	0	-1	5	-2
##	[6800]	-1	-3	5	4	-6	0	-4	-2	0	-6	-2	-4	-8
##	[6813]	-2	4	-2	-3	-1	0	0	-3	-8	0	-2	0	-1
##	[6826]	-6	2	-4	4	0	-2	0	-1	0	4	2	0	-2
##	[6839]	0	-9	0	2	2	0	6	14	6	0	3	-36	-63
##	[6852]	-44	-9	17	43	49	62	46	11	20	50	74	67	55
##	[6865]	48	57	-14	-92	-148	-161	-246	-276	-197	-12	130	151	70
##	[6878]	-29	-16	60	95	102	111	123	142	167	124	150	174	129
##	[6891]	15	-75	-157	-137	-91	-145	-189	-228	-227	-115	44	120	52
##	[6904]	-10	15	141	188	41	-150	-205	-74	-27	28	71	-34	-47
##	[6917]	44	105	53	-1	6	107	38	-182	-303	-238	-2	185	337
##	[6930]	346	285	192	-41	-271	-307	-274	-110	97	193	206	189	-88
##	[6943]	-306	-300	-143	107	249	252	220	160	127	132	62	-148	-175
##	[6956]	-121	70	84	-8	-108	-221	-138	-75	-45	-3	-388	-523	-443
##	[6969]	-149	192	442	427	237	104	70	159	308	332	136	180	248
##	[6982]	302	189	-45	-287	-415	-445	-454	-257	0	161	262	280	227
##	[6995]	132	98	93	55	0	-92	-215	-311	-318	-132	23	97	6
##	[7008]	-144	-139	-78	81	143	101	66	-64	-158	-97	27	101	92
##	[7021]	13	-68	-97	-154	-221	-130	79	256	317	206	-61	-317	-298
##	[7034]	-123	60	97	61	73	188	203	136	5	-112	-136	-40	25
##	[7047]	-3	98	-2	29	-41	-205	-138	-61	93	233	337	351	279
##	[7060]	193	65	-41	-160	-219	-214	-140	-69	-12	-7	28	66	70
##	[7073]	58	12	-5	-23	-35	-41	-53	-178	-196	-124	-9	83	105
##	[7086]	95	21	-33	-38	-28	-16	-23	-35	-51	-157	-212	-168	-141
##	[7099]	-63	22	188	284	257	165	141	128	78	22	-12	-7	-2
##	[7112]	6	2	4	4	-5	-17	-16	-21	-19	-17	-26	-32	-26
##	[7125]	-12	-11	-5	-4	-9	2	-13	-12	-15	-17	-6	-1	0
##	[7138]	0	-7	-5	-7	-1	-2	-10	-5	0	-12	-16	-4	-5
##	[7151]	-10	0	0	3	-2	-3	0	-4	-2	-4	-6	-3	1
##	[7164]	0	0	-3	-5	-2	-4	-4	-9	-5	-2	-5	-2	-4
##	[7177]	-1	-8	-3	-10	0	-7	-7	-8	-6	-1	-3	0	-7
##	[7190]	-1	-3	-3	-5	-3	0	-6	-2	-15	-6	-6	-2	0
##	[7203]	2	-6	0	6	0	-2	-3	-2	-5	-8	-6	-6	-5
##	[7216]	-5	-6	-1	-1	0	1	3	2	2	0	-3	-1	0
##	[7229]	-5	-7	-11	0	0	-5	-2	3	2	0	-6	1	0
##	[7242]	-3	0	-7	0	-2	-2	-3	-1	-6	0	-3	-6	-1

##	[7255]	-8	-6	-6	-1	-2	-2	-2	0	-3	-1	-8	-10	-7
##	[7268]	-3	0	-2	-11	-9	-10	-12	-2	0	-7	0	-7	-10
##	[7281]	-9	-12	-7	0	-1	1	0	-8	-9	0	0	4	1
##	[7294]	0	2	-12	-7	-2	-6	-1	-3	-6	0	-1	-2	2
##	[7307]	-3	0	-2	1	-4	0	0	-7	1	0	3	0	4
##	[7320]	0	0	0	1	0	2	-2	-3	-8	-1	0	5	2
##	[7333]	1	4	0	4	0	-3	-6	-3	-2	0	0	6	4
##	[7346]	0	0	0	-2	0	-1	-4	-2	7	0	-4	-2	0
##	[7359]	0	0	-2	0	0	-3	0	3	0	0	0	0	-3
##	[7372]	-5	0	0	-2	-3	-2	-1	-3	0	4	-1	0	-4
##	[7385]	-6	0	4	-2	-4	-3	0	0	-1	-1	0	-3	0
##	[7398]	6	1	1	3	1	6	-2	0	-5	0	-6	0	-1
##	[7411]	0	0	-3	2	1	2	-1	-4	0	-4	0	-5	-1
##	[7424]	0	-4	-4	-4	-13	-5	-11	-6	0	1	0	4	2
##	[7437]	-2	-3	-2	-3	-6	-7	0	-2	-5	-4	-5	-2	-3
##	[7450]	-11	-7	-6	-7	-3	0	-1	-2	-2	-2	0	-2	0
##	[7463]	-2	-4	-1	-1	-2	-2	0	-4	5	-3	-5	0	-4
##	[7476]	0	-3	-7	-3	1	-2	-5	-5	-2	0	-2	0	-3
##	[7489]	-8	0	-2	-2	0	-3	-3	-3	-1	-3	0	-6	0
##	[7502]	0	0	-1	1	0	1	0	-2	0	1	1	0	0
##	[7515]	-1	-3	1	1	1	0	0	-2	0	0	-2	3	3
##	[7528]	13	12	15	20	15	23	15	7	-31	-61	-47	-20	11
##	[7541]	16	28	35	32	21	19	39	15	-57	-28	43	-7	6
##	[7554]	4	-8	-48	-80	-93	-87	-32	59	127	153	121	143	141
##	[7567]	120	95	45	25	43	59	-19	-122	-149	-97	-106	-95	-107
##	[7580]	-162	-135	-75	-175	-210	-253	-85	162	308	311	256	187	91
##	[7593]	101	16	-196	-350	-135	192	231	111	-55	-210	-108	8	16
##	[7606]	-151	-406	-366	-117	187	429	519	355	162	42	57	77	75
##	[7619]	122	107	21	-133	-211	-179	-174	-239	-158	-11	144	178	84
##	[7632]	42	75	17	-68	48	161	211	15	-146	-135	-81	-26	-67
##	[7645]	-91	-125	-145	-128	-494	-719	-292	214	321	348	434	485	461
##	[7658]	220	66	-39	-72	-7	32	44	-8	14	22	-51	-133	-111
##	[7671]	-13	67	37	114	266	262	153	44	-84	-192	-283	-325	-409
##	[7684]	-398	-311	-264	-360	-281	10	284	397	418	397	291	164	-5
##	[7697]	-168	-141	-22	105	148	-48	-187	-191	-157	17	248	343	325
##	[7710]	204	-238	-196	-36	66	38	-45	-71	-34	34	54	32	-170
##	[7723]	-189	-5	198	241	173	68	28	31	24	-191	-231	-96	70
##	[7736]	68	27	-19	-86	-154	-138	-73	35	102	122	84	24	13
##	[7749]	-25	-15	5	-65	-83	-60	-31	2	36	-19	-49	-48	-8
##	[7762]	17	33	2	-18	-14	6	16	-41	-166	-179	-186	-118	-28
##	[7775]	-15	-29	-31	61	225	319	284	247	221	167	116	35	-30
##	[7788]	-66	-83	-57	-31	-17	-19	-26	-31	-31	-26	-24	-22	-74
##	[7801]	-60	-4	26	10	-13	-20	-15	-5	-8	-7	-1	0	-4
##	[7814]	-6	-6	-5	-4	0	-3	1	-4	-4	1	0	0	-5
##	[7827]	-8	-8	-10	-8	-7	-13	-8	-9	-1	3	0	-3	-2
##	[7840]	-2	-4	-5	0	-4	-7	-5	-9	-3	-5	0	-7	-2
##	[7853]	-8	-3	-8	-5	-4	-2	1	0	5	0	-8	-9	-10
##	[7866]	-6	-2	-7	-5	-4	-5	0	-5	-7	-6	-2	-5	-5
##	[7879]	-3	-2	-1	-5	-8	-1	-6	0	-3	1	0	0	-2
##	[7892]	-2	-7	0	-5	-7	0	-5	-1	-7	-1	-3	-2	-6
##	[7905]	-5	0	-8	-10	-7	-4	-7	-9	-9	-5	0	-4	-1
##	[7918]	-2	-3	-1	1	8	0	0	-7	-2	-6	-7	-4	-6
##	[7931]	-9	-2	-2	-6	-2	2	0	1	3	-1	2	1	4
##	[7944]	-3	-2	-4	-3	-4	0	-3	-11	-4	-2	-5	-9	0

##	[7957]	0	-6	-9	1	-5	-3	-3	-3	0	-2	-6	-3	-6
##	[7970]	-8	-8	-8	0	-1	-3	-2	-8	-9	-5	-8	-3	0
##	[7983]	-7	0	-3	0	-5	-3	4	2	-5	-1	-5	-2	-2
##	[7996]	3	0	3	1	0	-2	0	-1	-3	0	0	4	0
##	[8009]	0	-1	-1	-4	-4	0	0	-2	-5	-9	1	-5	0
##	[8022]	3	0	0	3	4	-1	0	3	4	0	4	-1	0
##	[8035]	3	2	0	-1	2	4	0	-1	-2	0	0	1	4
##	[8048]	4	-1	0	-10	0	0	-8	-8	0	0	-3	-1	-4
##	[8061]	0	3	0	-1	-3	-2	-5	0	0	-2	0	-2	-4
##	[8074]	0	2	0	-4	-2	-1	1	4	3	0	-7	0	-4
##	[8087]	4	0	-6	-5	-2	-2	0	-1	-3	-1	1	-5	-5
##	[8100]	-2	2	-1	-6	-3	0	1	-2	-2	0	-6	0	0
##	[8113]	-3	-4	-3	-3	2	1	6	1	3	0	0	-4	-5
##	[8126]	-1	-5	-3	-2	-1	-5	-5	2	-1	0	0	-1	-3
##	[8139]	0	-6	-1	-3	-5	-5	-7	-1	0	4	-2	0	-2
##	[8152]	0	-1	-5	-4	-8	-3	-4	-8	-5	0	-2	0	0
##	[8165]	-2	0	-4	-2	3	-5	-4	-8	-4	0	0	-1	-2
##	[8178]	0	0	-1	-4	2	0	0	-4	0	0	2	0	-2
##	[8191]	-5	0	3	-2	3	0	1	-3	-7	0	-2	3	-3
##	[8204]	0	-14	-3	-4	-8	0	1	-1	0	0	6	5	6
##	[8217]	0	0	3	-13	-56	-43	-20	18	34	48	45	50	37
##	[8230]	35	34	42	-21	-90	-46	80	181	188	10	-258	-297	-197
##	[8243]	-71	-2	53	73	102	126	61	-4	19	105	173	196	140
##	[8256]	91	76	74	37	3	-152	-238	-191	-203	-160	-128	-18	106
##	[8269]	182	160	98	30	-49	-71	-131	-212	-303	-191	15	74	76
##	[8282]	76	68	51	54	1	-115	-77	82	298	376	283	-87	-466
##	[8295]	-507	-107	168	210	163	208	271	222	106	43	22	-13	-117
##	[8308]	-216	-244	-211	-236	-268	-226	-80	102	218	194	239	252	241
##	[8321]	257	199	-105	-142	113	299	245	42	-140	-238	-254	-406	-602
##	[8334]	-752	-494	11	512	695	572	361	114	-19	-166	-269	-209	-36
##	[8347]	-38	-71	28	115	140	114	115	128	141	76	-36	-69	-8
##	[8360]	77	185	98	-34	-79	-111	-150	-201	-160	-89	-56	-16	30
##	[8373]	95	118	78	-66	-134	-243	-281	-76	147	224	12	-44	60
##	[8386]	159	104	-89	-161	-129	-18	86	110	38	-53	-120	-19	68
##	[8399]	79	114	-7	-264	-145	70	182	103	-173	-219	8	261	336
##	[8412]	321	283	197	76	-42	-88	-89	-101	-107	-88	-50	22	74
##	[8425]	78	16	10	5	-27	-19	5	-2	-13	-52	-157	-229	-171
##	[8438]	-78	28	93	84	14	-65	-72	-26	30	72	-2	-89	-69
##	[8451]	-17	-8	-14	-8	30	55	83	78	58	15	-27	-148	-210
##	[8464]	-162	-63	-4	7	36	57	109	166	186	75	40	52	31
##	[8477]	58	45	20	13	7	16	15	-3	-12	-28	-24	-26	-17
##	[8490]	-7	13	11	0	-5	-13	-28	-23	-21	-22	-24	-11	-2
##	[8503]	4	10	3	5	1	9	-6	-8	-11	-12	-5	-4	-6
##	[8516]	-4	-8	-3	-2	-11	-5	-5	-3	-11	-1	-6	-2	-4
##	[8529]	-4	-8	-12	-13	-8	-1	-6	-3	6	0	1	-2	7
##	[8542]	-7	-4	-6	-6	-1	-1	0	-6	-4	-9	0	0	-4
##	[8555]	-9	-6	-6	-5	-7	0	2	0	-4	1	-2	-2	-3
##	[8568]	-2	0	0	-3	-1	-2	-8	0	-2	4	3	5	0
##	[8581]	0	-6	-3	6	-2	-7	2	-3	-1	-6	-8	-4	2
##	[8594]	1	2	-4	-3	-7	-4	-3	-6	-6	-4	-5	-5	-6
##	[8607]	-9	-3	3	4	0	0	-2	-3	3	-5	-4	1	0
##	[8620]	1	-1	-3	2	-3	-5	-1	-5	-4	-2	0	3	1
##	[8633]	-4	-5	-8	-1	0	-1	0	1	0	-10	-3	-9	-6
##	[8646]	-1	-3	-10	-12	-10	-10	-8	-9	-7	1	-3	-1	-3

##	[8659]	-7	0	0	-1	0	-5	-6	-1	-6	-13	-11	-11	-10
##	[8672]	-6	0	0	0	-6	-3	-10	0	-3	0	1	6	2
##	[8685]	-4	3	-3	-4	-2	-1	-3	2	5	3	2	-2	-5
##	[8698]	5	3	0	4	-2	-1	0	1	0	-4	-2	3	-3
##	[8711]	-1	0	0	-1	-2	-8	-2	-1	4	-7	0	0	1
##	[8724]	9	2	9	1	0	-2	-2	-4	-1	-2	-2	1	6
##	[8737]	-2	-2	-1	1	-2	-1	-2	2	-1	-3	5	-2	6
##	[8750]	8	0	-2	6	1	0	0	0	-3	-2	0	0	-3
##	[8763]	0	-1	0	3	-1	0	-2	0	-3	-4	-4	0	2
##	[8776]	1	0	4	-11	-5	-9	6	8	0	2	0	1	-9
##	[8789]	-1	-2	1	4	-5	3	-1	0	0	2	0	-4	0
##	[8802]	0	1	2	-7	-3	-17	-9	0	-5	-9	3	0	-2
##	[8815]	-4	0	-2	-4	1	-4	-2	0	0	0	1	0	-3
##	[8828]	8	0	3	2	0	-4	-11	-6	-4	0	-4	-3	-1
##	[8841]	1	0	-4	0	-8	-4	-3	-5	-11	-9	-2	-4	3
##	[8854]	2	-4	0	0	-1	4	2	2	-2	-2	3	7	0
##	[8867]	-4	3	0	0	0	2	0	2	3	0	1	0	6
##	[8880]	-2	-5	-4	0	-1	-2	1	1	4	-1	1	-2	0
##	[8893]	-2	-2	2	-4	0	-3	0	-1	1	0	-3	0	7
##	[8906]	0	6	1	7	1	0	1	16	15	12	-25	-20	-2
##	[8919]	21	37	53	51	17	16	7	12	14	31	17	-15	-129
##	[8932]	-250	-210	-81	39	125	152	138	108	94	48	-6	-30	-38
##	[8945]	-47	-21	62	130	157	86	-10	-16	-25	-9	-5	-88	-140
##	[8958]	-123	-181	-235	-206	-98	-80	-5	105	261	225	134	102	196
##	[8971]	297	334	272	18	-569	-979	-823	-285	149	350	341	253	93
##	[8984]	0	-47	3	103	178	53	-156	-100	105	194	200	265	319
##	[8997]	299	194	18	-133	-122	-1	53	72	41	-162	-474	-539	-428
##	[9010]	-296	-150	-50	159	246	134	150	173	164	-57	-134	-167	-301
##	[9023]	-197	-22	104	136	193	203	152	142	86	43	21	61	138
##	[9036]	71	7	49	59	-89	-82	12	154	180	109	71	59	48
##	[9049]	-238	-449	-353	-70	120	200	206	126	52	29	-12	-121	-157
##	[9062]	-226	-270	-200	-110	-99	-68	-40	0	18	86	132	120	148
##	[9075]	210	6	-224	-164	123	297	287	148	-34	-82	-37	45	62
##	[9088]	-16	-48	6	-57	-116	-134	-204	-172	-63	33	80	102	131
##	[9101]	145	96	-22	-114	-119	-80	-11	64	91	101	128	107	59
##	[9114]	-60	-242	-253	-157	-42	11	55	93	136	161	162	180	206
##	[9127]	153	56	-21	-53	-43	-60	-74	-67	-106	-100	-75	-92	-99
##	[9140]	-107	-37	38	112	143	141	68	-86	-128	-107	-65	9	59
##	[9153]	76	48	41	29	14	0	-7	-16	-20	-42	-46	-38	-15
##	[9166]	-3	-8	-10	-13	-19	-9	-30	-40	-51	-55	-22	27	69
##	[9179]	83	76	64	57	44	31	13	9	3	5	2	-3	0
##	[9192]	-4	-1	-3	-8	-6	-6	-5	-5	-8	-10	-9	-1	-10
##	[9205]	-5	-4	-6	-10	-6	-10	-10	-9	-3	-15	-7	2	-5
##	[9218]	-2	0	-3	-3	-2	-1	-11	-1	2	3	-1	-7	-8
##	[9231]	0	0	-6	-10	-6	-6	-5	-3	-3	-7	-1	4	-11
##	[9244]	-3	3	0	0	-4	0	-3	-2	-3	-5	-9	-3	0
##	[9257]	-7	-3	-2	1	-5	0	-8	-7	-5	0	-7	0	0
##	[9270]	-6	0	3	-1	-8	-1	-2	0	-4	-5	-6	-1	-7
##	[9283]	-3	-2	1	2	0	-3	0	-8	-8	-4	-12	-10	0
##	[9296]	2	-4	2	1	0	2	6	4	3	-8	1	-2	-1
##	[9309]	0	0	2	-1	-1	-3	-1	0	0	-8	-1	-5	-6
##	[9322]	-10	-13	-10	0	-6	0	-6	-8	-13	-11	-3	-4	-12
##	[9335]	0	-2	0	-3	0	2	1	8	5	3	0	0	4
##	[9348]	0	-2	-2	0	0	-7	-5	-10	-8	-13	-10	1	-11



##	[9361]	-7	-5	-3	-9	-7	-18	-11	-11	-4	-6	-7	-4	-7
##	[9374]	1	0	8	5	7	6	4	1	2	-3	0	0	0
##	[9387]	-3	5	-1	-1	-2	-6	-6	-9	-4	-4	-10	-3	-6
##	[9400]	-10	-4	0	-6	-1	0	6	7	4	0	4	3	0
##	[9413]	-6	0	2	3	0	6	3	4	5	6	4	2	5
##	[9426]	3	0	0	-11	-6	-1	2	4	6	7	0	-1	3
##	[9439]	1	2	-4	0	0	7	1	0	-2	0	0	-4	-2
##	[9452]	0	0	5	7	5	-2	0	0	-11	-6	-4	6	5
##	[9465]	7	14	10	5	0	7	5	5	0	0	-6	-5	-2
##	[9478]	-11	-7	-7	-9	0	3	0	3	8	1	2	-2	-1
##	[9491]	1	-1	0	1	-1	-1	-7	-13	-10	-6	-8	0	3
##	[9504]	1	-5	4	3	1	0	-1	0	0	0	-3	-6	0
##	[9517]	-3	-8	2	-3	3	6	5	8	0	1	-6	-6	-8
##	[9530]	-10	-15	-12	-5	-4	-5	-8	-5	0	-1	-5	-2	11
##	[9543]	7	12	10	9	6	6	1	-3	-2	-6	-6	-7	-8
##	[9556]	-1	0	0	-4	3	-5	-8	-1	5	11	13	8	3
##	[9569]	-4	0	-2	-2	4	-3	-4	-5	-8	-1	-2	-3	-3
##	[9582]	-1	3	0	1	1	-6	-2	1	8	5	2	1	1
##	[9595]	-1	-1	-8	1	-2	0	2	4	7	5	0	2	2
##	[9608]	0	0	0	0	0	6	4	11	6	20	30	-23	-66
##	[9621]	-51	-24	31	62	55	6	-24	0	28	50	53	76	73
##	[9634]	-24	-110	-137	-118	-65	0	70	59	45	3	-26	-39	-5
##	[9647]	-25	16	101	202	207	29	-93	-90	-77	-15	34	12	-110
##	[9660]	-197	-167	-66	93	219	273	275	154	-47	-158	-205	-255	-274
##	[9673]	-107	-5	-44	-21	79	136	135	74	-1	-100	-139	-266	-459
##	[9686]	-358	-250	-34	201	310	386	450	404	175	12	5	102	129
##	[9699]	109	60	94	202	228	161	96	-63	-255	-418	-400	-406	-369
##	[9712]	-237	-19	102	103	95	60	98	100	61	-98	-20	111	185
##	[9725]	97	-31	-275	-321	-117	52	89	83	68	-83	-292	-148	132
##	[9738]	354	196	-23	-86	90	310	320	217	125	138	78	20	0
##	[9751]	9	-9	-13	-60	-56	-133	-285	-338	-246	-105	-16	-29	-75
##	[9764]	-148	-163	-15	171	246	56	-90	-35	43	134	160	189	77
##	[9777]	-301	-428	-353	-166	30	149	218	242	228	225	200	175	152
##	[9790]	101	62	33	0	-27	-57	-66	-108	-140	-147	-113	-62	-4
##	[9803]	8	1	-1	2	5	13	20	0	-6	-5	0	3	5
##	[9816]	9	-2	-6	-13	-7	-44	-41	11	33	-8	-61	-144	-113
##	[9829]	-33	16	74	106	110	61	17	-18	-19	-18	-31	-26	-12
##	[9842]	12	26	23	14	8	0	9	10	0	0	8	6	7
##	[9855]	3	2	-3	-3	-8	2	0	-2	0	-2	1	1	8
##	[9868]	4	2	-8	-9	-9	-7	-12	-8	-5	-7	-1	-10	-8
##	[9881]	-5	-6	-1	0	-10	-10	-8	-11	-3	0	-5	-7	-6
##	[9894]	-14	-8	-7	-2	-4	-1	-1	-7	-7	-5	-8	-2	-8
##	[9907]	2	0	4	0	-2	0	-5	-3	-8	4	2	-4	0
##	[9920]	-1	-3	0	2	0	0	-3	-2	-2	1	7	5	-2
##	[9933]	-4	-4	3	8	2	0	-5	-5	-2	1	-5	-7	-8
##	[9946]	-2	-4	1	-5	-2	0	-2	-1	-8	0	-7	-8	-4
##	[9959]	-4	0	-2	-10	2	1	1	12	10	12	6	0	2
##	[9972]	2	0	-1	4	-2	5	0	-8	-10	-9	-2	-1	0
##	[9985]	-1	0	-2	-5	-4	-3	-7	-4	-1	-4	0	-6	-12
##	[9998]	-4	-6	-12	-4	0	-1	-8	-1	-1	0	1	0	-1
##	[10011]	-3	0	-1	-5	-2	-8	0	-4	-6	-9	0	-3	-2
##	[10024]	0	-3	0	1	-1	-6	0	-5	-10	0	1	-9	-5
##	[10037]	-4	-6	-6	-5	-9	-2	-5	0	0	-6	-8	-8	-9
##	[10050]	-11	-10	-5	1	0	-2	-4	0	-6	-2	-3	-2	-3

## [10063]	3	5	0	-1	-2	-3	-1	-3	-1	1	0	2	3
## [10076]	2	1	3	0	-4	-3	-1	-2	2	0	0	1	-5
## [10089]	0	-7	-2	2	1	1	-5	-1	-2	5	0	-2	0
## [10102]	-3	-1	0	-3	-2	3	1	-1	0	-1	0	-2	3
## [10115]	0	1	5	3	8	3	7	2	0	0	0	-13	-2
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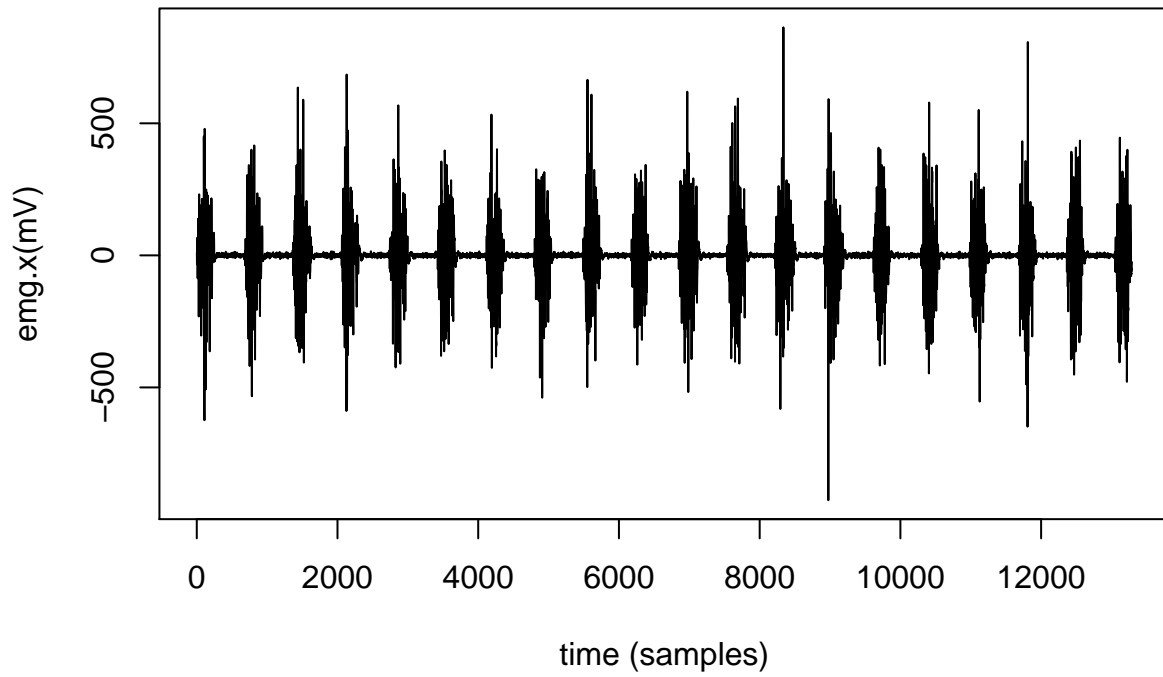
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## [12754]	0	3	0	5	5	8	0	0	-6	-7	0	-3	0
## [12767]	1	0	1	-3	-2	-11	-13	-8	-4	-2	-4	0	-6
## [12780]	-6	1	-3	-7	-6	0	3	0	0	-3	-10	-17	-6
## [12793]	-7	0	7	0	1	0	0	1	0	3	-4	-5	-1
## [12806]	-1	-6	-5	-1	-5	-2	0	0	-2	-6	-8	-2	1
## [12819]	-3	-4	-8	-9	-3	0	3	-1	-2	6	-1	-3	-4
## [12832]	0	-2	11	-3	1	-6	1	-1	0	2	3	0	0
## [12845]	-1	0	-3	-6	-4	3	0	0	4	0	-5	-6	-6
## [12858]	-7	-3	-1	-3	-12	1	3	5	0	0	6	3	-4

```
## [12871] 3 0 2 -3 0 0 0 -3 0 -3 -4 0 2
## [12884] 3 -1 2 4 0 2 0 -2 0 -1 -4 -3 -8
## [12897] -2 4 11 10 8 -4 2 -3 -1 2 -5 10 2
## [12910] 3 0 3 4 -5 0 -5 -2 -2 0 5 0 3
## [12923] -4 0 -2 0 -4 0 0 0 4 3 5 4 0
## [12936] -3 -9 -5 4 -9 -1 -8 -8 -6 -8 -4 2 2
## [12949] 0 2 0 6 9 0 0 -1 -1 1 -6 -2 -8
## [12962] -2 -1 0 1 0 6 6 6 -8 -2 1 0 0
## [12975] -3 -3 5 -7 0 1 3 0 2 0 0 -1 0
## [12988] -5 0 -6 1 0 0 0 -3 1 1 0 1 -2
## [13001] 0 0 2 -2 0 -5 -1 -5 0 -1 -1 1 -2
## [13014] 0 -3 -2 0 -4 0 -3 0 1 -1 -2 -4 0
## [13027] 1 -1 -1 0 -11 0 -1 -3 -4 -4 -2 -2 0
## [13040] -2 0 1 3 -5 -2 5 8 10 20 5 13 15
## [13053] 12 -14 -61 -61 -37 0 25 52 78 48 34 42 37
## [13066] 36 30 -3 -31 -32 -7 10 28 1 -11 -83 -122 -212
## [13079] -215 -214 -91 16 30 13 65 160 203 217 171 67 1
## [13092] 0 92 162 155 121 93 -71 -242 -315 -188 -30 96 116
## [13105] 94 18 -50 -45 19 88 130 120 -33 -250 -505 -428 -124
## [13118] 190 330 257 73 -61 -93 -22 -51 -68 43 96 -34 -368
## [13131] -295 -6 210 289 225 151 136 127 90 13 -43 0 92
## [13144] 127 77 -95 -131 -9 57 -79 -165 -162 -273 -250 -56 154
## [13157] 201 151 72 -55 -158 -22 192 266 188 102 56 15 -17
## [13170] -48 -197 -328 -234 1 138 158 143 44 -38 -164 -89 47
## [13183] 137 68 7 46 86 74 -123 -318 -245 -61 177 279 286
## [13196] 284 241 88 -42 -117 -162 -338 -463 -448 -236 25 169 197
## [13209] 173 93 -28 -9 60 132 203 252 198 -145 -410 -447 -375
## [13222] -267 -232 -57 154 291 178 191 285 361 349 218 26 -87
## [13235] -130 -159 -142 -208 -180 -20 113 146 111 84 70 34 15
## [13248] -3 -11 14 39 58 74 65 39 20 -32 -92 -139 -142
## [13261] -107 -34 -9 -77 -190 -194 -86 22 70 90 89 87 115
## [13274] 123 94 60 32 21 17 19 18 10 1 5 8 -9
## [13287] -12 -13 -15 -16 -19
```

```
# High pass filter
x <- highpass(emgraw, cutoff = 20) # 20 Hz recommended for sport activities (maybe as much as 30 Hz)
emghpass <- rectification(x)

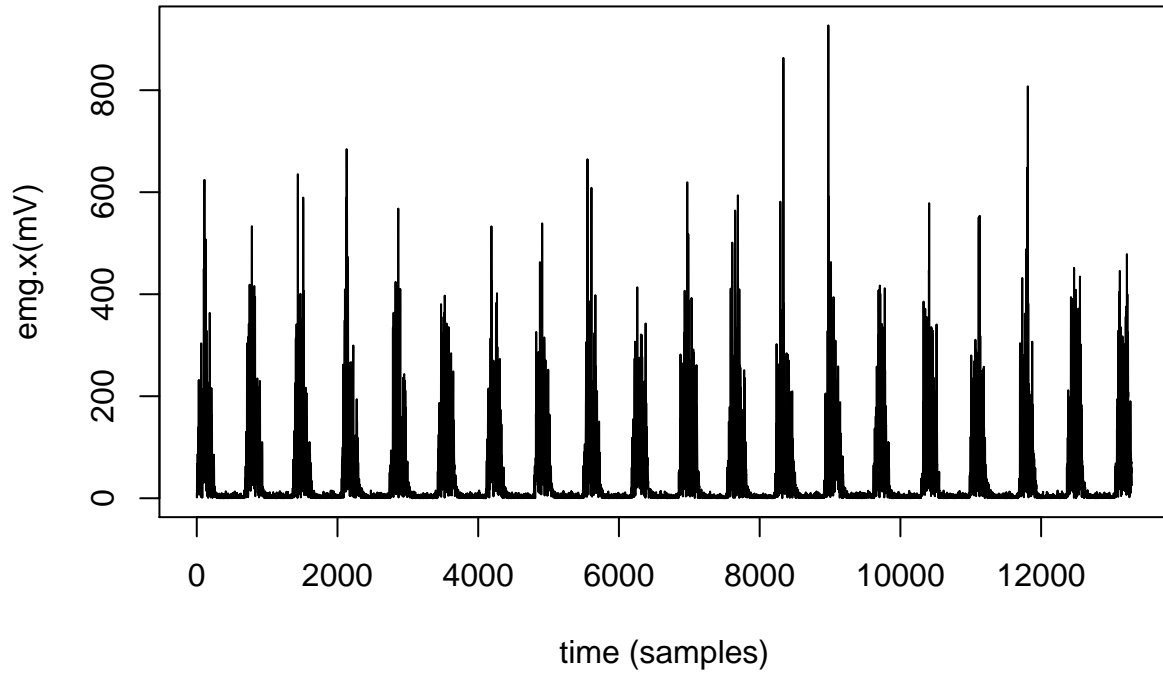
plot(x, main = "High pass filter")
```

## High pass filter



```
plot(emghpass, main = "High pass filter with rectification")
```

## High pass filter with rectification



emghpass *#data with high pass filter and rectified*

```
## EMG Object : emg.x
## Number of samples: 13291
## Units: mV
## Duration (seconds): 8.860667
## Samplingrate (Hertz): 1500
## Values:
## [1] 8.731909e+00 1.493865e+00 3.371463e+01 2.573777e+01 7.368154e+00
## [6] 1.227380e+01 3.487508e+01 6.244144e+01 6.745465e+01 4.357764e+01
## [11] 3.315895e+01 8.664173e+01 8.210921e+01 4.723866e+01 1.550280e+01
## [16] 2.637638e+01 1.256018e+01 3.979016e+01 7.179397e+01 1.028362e+02
## [21] 1.389016e+02 1.135580e+02 3.834665e+01 7.226570e+00 6.113683e+01
## [26] 1.231213e+02 1.785850e+02 2.312796e+02 1.940454e+02 1.490915e+02
## [31] 2.670501e+01 8.822712e+01 2.182269e+02 2.311987e+02 1.897646e+02
## [36] 1.242202e+02 2.450359e+01 3.803774e+01 5.102679e+01 7.811739e+01
## [41] 1.568505e+02 1.105805e+02 2.076637e+01 4.280091e+01 1.052641e+02
## [46] 8.785666e+01 7.185584e+01 6.333572e+01 4.575286e+01 2.427488e+01
## [51] 3.715397e+01 1.157324e+02 1.391925e+02 9.771347e+01 1.646507e+01
## [56] 4.262215e+00 4.052455e+01 1.001589e+01 3.130393e+01 1.629614e+02
## [61] 1.481261e+02 6.305647e+01 3.037792e+02 2.331046e+02 1.629653e+00
## [66] 3.974794e+01 3.633171e+01 2.318925e+01 1.432170e+02 1.927019e+02
## [71] 1.051820e+02 1.295568e+02 2.136896e+02 1.847603e+02 6.559713e+01
## [76] 4.298381e+01 7.900371e+01 4.886205e+01 1.154774e+00 5.056063e+01
## [81] 1.179424e+02 1.975680e+02 9.499220e+01 4.663862e+01 6.596191e+01
## [86] 4.361967e+01 7.631977e+01 1.829862e+02 1.675080e+02 1.340291e+02
```



```

## [91] 6.216006e+01 4.686179e+01 1.142918e+02 1.646448e+02 1.763341e+02
## [96] 1.960333e+02 7.912413e+01 3.069471e+01 1.834500e+02 4.497876e+02
## [101] 4.113429e+02 3.161979e+02 2.305894e+02 1.734776e+02 1.166477e+02
## [106] 9.227321e+01 2.428931e+02 5.804654e+02 6.242719e+02 2.454227e+02
## [111] 2.596746e+02 4.790522e+02 4.717840e+02 4.112317e+02 2.383438e+02
## [116] 1.293928e+02 3.107607e+01 8.429194e+01 1.235749e+02 1.261091e+02
## [121] 1.166440e+02 1.083116e+02 3.599680e+01 1.984450e+02 3.682108e+02
## [126] 4.887498e+02 5.074985e+02 4.659904e+02 3.471485e+02 1.973496e+02
## [131] 1.484686e+01 1.668711e+02 2.496697e+02 2.416418e+02 1.788808e+02
## [136] 9.597154e+01 1.685045e+02 3.287809e+02 1.880666e+02 4.129794e+01
## [141] 1.818627e+02 2.377773e+02 1.185922e+02 1.542845e+01 7.010160e+01
## [146] 4.576876e+01 3.648063e+01 6.862736e+01 5.446544e+01 2.104886e+01
## [151] 3.653547e+00 2.348734e+01 3.458682e+01 1.091034e+02 4.682752e+01
## [156] 1.075305e+02 2.266932e+02 2.073817e+02 9.564238e+01 4.147555e+01
## [161] 3.933818e+00 6.270967e-01 2.303052e+01 5.126603e+01 4.011484e+01
## [166] 2.444477e+01 3.911911e+00 1.040326e+01 4.100726e+01 3.750741e+01
## [171] 1.388869e+01 5.135989e+01 5.778703e+01 4.113582e+01 1.121399e+02
## [176] 3.099578e+01 9.645305e+01 1.563014e+02 1.299730e+02 5.403566e+01
## [181] 7.072953e+01 2.060936e+02 3.222091e+02 3.633914e+02 3.295061e+02
## [186] 1.739083e+02 1.172092e+01 1.159113e+02 1.772772e+02 1.897289e+02
## [191] 1.413437e+02 8.351713e+01 2.792212e+01 3.393516e+01 4.181231e+01
## [196] 7.278937e+01 1.036280e+02 7.635345e+01 1.410254e+01 1.379234e+00
## [201] 5.066488e+01 4.936523e+01 4.216802e+01 2.352882e+01 2.086255e+01
## [206] 8.005163e+01 1.599133e+02 2.160391e+02 2.029046e+02 1.752605e+02
## [211] 1.089835e+02 5.513431e+01 2.618228e+00 5.518664e+01 1.448422e+02
## [216] 1.622507e+02 1.026793e+02 4.362001e+01 2.373507e+00 1.529899e+01
## [221] 1.318852e+00 7.295908e+00 7.511562e+00 1.061775e+01 1.181117e+00
## [226] 2.015597e+01 1.667856e+01 4.824516e+00 4.331262e+00 1.026260e+01
## [231] 1.527081e+01 1.413860e+01 1.268343e+01 1.447951e+01 1.166674e+01
## [236] 2.197580e+01 1.919767e+01 1.955765e+01 2.572099e+01 1.594493e+01
## [241] 2.321504e+01 6.083390e+01 8.550067e+01 8.447393e+01 7.065223e+01
## [246] 5.865617e+01 3.689618e+01 7.364909e+00 1.849989e+01 1.805166e+01
## [251] 1.500130e+01 1.878237e+01 2.064792e+01 2.009322e+01 2.030014e+01
## [256] 2.279523e+01 1.643813e+01 1.921791e+01 1.574396e+01 1.107202e+01
## [261] 7.358108e+00 1.859228e+00 6.523998e+00 2.194441e+00 8.606092e+00
## [266] 9.022839e+00 1.095010e+01 6.086417e+00 4.040742e+00 6.818107e+00
## [271] 7.058485e+00 3.592689e+00 3.510570e+00 1.857949e+00 2.010038e+00
## [276] 4.062709e+00 6.401817e+00 6.248078e+00 1.116376e+01 4.914345e+00
## [281] 5.169635e+00 1.623751e+00 2.103829e+00 8.477376e+00 7.052309e+00
## [286] 4.079561e+00 1.732109e+00 8.712245e-02 4.549536e+00 7.010355e+00
## [291] 7.848935e+00 6.585348e+00 3.746367e+00 4.155067e+00 1.782084e+00
## [296] 3.473478e+00 2.271597e+00 8.330459e+00 1.256538e+00 1.485082e+00
## [301] 4.563316e+00 2.104796e+00 2.190971e-01 2.959846e-01 5.858557e+00
## [306] 2.384762e+00 4.424614e+00 8.076389e+00 4.336267e+00 4.037489e+00
## [311] 7.237034e+00 1.636604e+00 1.720920e+00 5.217944e+00 6.293433e+00
## [316] 3.559851e+00 5.187665e-01 6.067744e+00 9.246972e+00 8.749180e+00
## [321] 1.071460e+00 6.611068e+00 7.515951e-02 1.379962e+00 2.836857e+00
## [326] 3.385208e+00 4.125650e+00 7.205656e-02 4.527952e-01 1.765901e+00
## [331] 3.638223e+00 2.379915e+00 4.009060e+00 7.736531e-02 6.450950e+00
## [336] 4.265404e+00 1.887291e+00 4.823516e-01 4.694445e+00 2.656721e-01
## [341] 1.168287e+00 1.303495e+00 1.183332e+00 2.235844e+00 3.063047e+00
## [346] 1.881873e+00 4.441178e+00 5.396615e+00 4.212375e+00 3.167930e+00
## [351] 5.745558e+00 1.383337e+00 3.775768e+00 1.024890e+01 7.020440e+00
## [356] 3.095917e-02 1.747456e-01 4.652179e+00 8.144431e-01 5.947663e-01

```

```

## [361] 2.208613e+00 3.589013e+00 2.658777e+00 1.859569e+00 5.667548e-01
## [366] 5.904246e+00 1.056635e+00 3.433861e+00 9.880146e-01 2.240489e-02
## [371] 6.015808e+00 4.255043e+00 1.158323e-01 4.004119e-01 8.179090e+00
## [376] 6.642432e+00 2.662784e+00 6.541786e+00 1.431457e+00 9.854048e-02
## [381] 3.432124e+00 6.056418e-01 2.467566e+00 4.833442e-01 7.980698e-01
## [386] 1.773376e+00 5.974457e+00 1.138944e+00 3.799670e-02 8.803983e+00
## [391] 3.497229e-01 7.004578e+00 5.416984e+00 3.342279e-01 2.096667e+00
## [396] 1.149565e-01 8.243690e-01 1.103998e+00 7.068320e+00 2.587706e+00
## [401] 3.434421e+00 5.686915e+00 3.685627e+00 6.365356e-01 3.103573e+00
## [406] 4.074772e+00 2.994046e+00 4.862856e+00 2.784776e+00 7.019768e-01
## [411] 1.663584e+00 1.376655e+01 1.212696e+01 6.140333e+00 7.484880e+00
## [416] 6.497106e+00 3.741167e+00 2.038201e+00 2.957979e+00 2.760030e+00
## [421] 3.385765e-02 3.843867e+00 3.057778e+00 3.144846e+00 4.850401e+00
## [426] 9.148858e+00 8.730026e+00 9.073618e+00 9.092967e+00 3.602296e+00
## [431] 1.826290e-01 1.939444e+00 5.977844e-01 2.171875e+00 4.564409e+00
## [436] 6.939813e+00 3.706301e+00 2.113037e+00 3.707324e-02 4.292173e+00
## [441] 4.834344e+00 4.072736e+00 1.995259e+00 5.400552e-01 3.345010e+00
## [446] 5.386963e+00 9.388882e+00 3.383847e+00 1.274011e+00 4.792793e+00
## [451] 6.694342e+00 5.346054e+00 1.974666e-01 3.511183e-02 2.727651e+00
## [456] 3.889010e+00 2.037539e+00 2.932331e+00 3.596998e-01 2.439637e-01
## [461] 2.772419e+00 1.119563e+00 5.931701e+00 2.088604e-01 1.413581e+00
## [466] 3.118819e-01 1.022534e+00 1.154193e+00 1.235582e+00 6.512568e+00
## [471] 3.346456e+00 9.298476e-01 3.299563e+00 2.851123e+00 4.169432e-01
## [476] 5.861806e-01 5.665638e+00 4.143933e+00 1.970200e+00 1.512644e+00
## [481] 2.294043e-01 6.324416e+00 3.267541e+00 6.066029e+00 6.240136e+00
## [486] 5.262714e+00 3.420802e+00 7.076417e+00 3.548988e+00 8.140088e+00
## [491] 7.971232e+00 5.906694e+00 8.559320e+00 3.353885e+00 2.787278e+00
## [496] 3.147990e+00 2.449335e+00 3.576585e+00 6.200639e-02 4.604219e+00
## [501] 3.572427e+00 6.054480e-02 3.498601e+00 2.515992e+00 2.686476e+00
## [506] 4.826307e+00 3.678345e+00 9.211106e-01 1.011561e+01 7.052319e-01
## [511] 3.751696e+00 4.262521e+00 6.308444e+00 7.151773e-01 8.679680e+00
## [516] 3.550506e-01 5.871005e+00 8.223217e-01 2.191594e+00 3.429707e+00
## [521] 2.354183e+00 2.055035e+00 2.753373e+00 4.087042e+00 5.853548e+00
## [526] 1.137259e+01 4.706839e+00 2.926394e-01 2.272615e+00 3.346136e+00
## [531] 5.862741e+00 7.642458e+00 5.293927e+00 1.603142e+00 2.237697e+00
## [536] 4.398012e+00 4.149912e+00 1.187626e+00 6.082472e-01 3.379155e+00
## [541] 3.722733e+00 1.349379e+01 1.301104e+00 8.929109e+00 1.396298e-01
## [546] 8.059672e-01 4.615692e+00 2.488325e+00 7.762731e-01 8.427555e+00
## [551] 2.080926e+00 6.327680e+00 1.079381e+01 5.974808e+00 5.535030e-01
## [556] 5.473515e-01 5.670457e+00 7.658727e+00 6.341864e+00 2.529152e+00
## [561] 4.782738e+00 1.100346e+00 4.352807e+00 2.300979e+00 3.245296e+00
## [566] 2.067686e+00 1.919444e+00 5.171586e+00 4.785992e+00 2.744823e+00
## [571] 4.137825e+00 6.914352e+00 1.064618e+01 4.488110e+00 2.984437e-01
## [576] 3.969723e+00 4.522999e+00 6.581856e+00 2.722606e+00 4.067626e+00
## [581] 2.023853e+00 1.368577e+00 2.666934e+00 3.077452e+00 1.369407e+00
## [586] 5.260993e-01 3.279649e+00 4.641509e-02 2.642409e+00 1.966940e+00
## [591] 1.359376e+00 2.562651e+00 2.480364e+00 3.357376e-01 1.659259e+00
## [596] 6.168972e+00 4.223816e+00 8.452841e-01 2.342778e+00 3.727514e-01
## [601] 6.439767e-01 1.742765e+00 5.182265e+00 1.901634e-01 4.255364e+00
## [606] 5.911952e+00 2.153785e+00 9.868332e-01 7.941842e+00 4.263402e+00
## [611] 3.055384e+00 2.438818e+00 1.024371e+00 1.662640e+00 1.222793e+00
## [616] 8.446833e-01 5.762321e+00 1.166864e+00 2.297525e+00 3.981079e-01
## [621] 1.514759e-01 2.283959e+00 1.435062e+00 6.005551e+00 9.322788e+00
## [626] 1.078984e+00 8.612901e-01 1.527201e+00 1.525200e+00 1.415829e+00

```

```

## [631] 1.647722e+00 4.127484e-01 6.716856e-01 1.118738e+00 1.978901e-01
## [636] 3.141315e+00 1.434391e+00 3.224303e-01 2.484345e+00 2.106082e+00
## [641] 2.968428e+00 2.702503e+00 4.198913e+00 8.709927e-01 1.824947e+00
## [646] 1.019043e-01 1.947657e+00 8.491663e-01 1.748585e+00 1.519815e+00
## [651] 1.307263e+00 5.002181e+00 1.711509e+00 1.553042e+00 1.394964e+00
## [656] 1.381197e+00 8.251664e-01 3.129846e+00 2.560645e+00 2.045034e+00
## [661] 1.580008e+00 4.076493e+00 1.282390e+00 2.606757e+00 1.707933e+00
## [666] 3.198754e+00 3.354606e+00 5.097390e+00 7.506874e-01 1.839593e-02
## [671] 2.314130e+00 3.075044e+00 2.631364e+00 1.346840e+00 1.784835e+00
## [676] 7.367387e+00 1.319090e+01 1.636567e+01 6.901025e+00 1.450866e+00
## [681] 8.695633e+00 7.866555e+00 5.253398e+00 4.839696e+00 1.756198e+00
## [686] 4.126545e+00 6.413621e+00 1.597676e+01 7.865292e+00 3.881917e+01
## [691] 3.740616e+01 3.357072e+00 4.928693e+01 6.268476e+01 4.458273e+01
## [696] 2.891782e+00 1.273644e+01 1.061307e+01 1.499827e+00 1.932972e+01
## [701] 1.300864e+02 1.205383e+02 5.240782e+01 1.741158e+01 4.530864e+01
## [706] 2.718995e+01 2.201222e+01 3.378448e+00 3.747405e+01 9.051284e+01
## [711] 5.566739e+01 3.392583e+00 1.542317e+02 2.704902e+02 3.037090e+02
## [716] 2.193742e+02 9.015864e+01 2.682710e+01 8.374937e+01 1.113243e+02
## [721] 1.591159e+02 1.244382e+02 1.219696e+02 8.096993e+01 4.832908e+01
## [726] 2.032402e+01 2.429534e+01 3.735879e+01 2.082279e+00 6.989345e+00
## [731] 8.101536e+00 3.246204e+01 8.680833e+01 2.581544e+02 2.935397e+02
## [736] 3.167555e+02 1.377975e+02 9.512694e+01 2.868295e+02 3.419023e+02
## [741] 2.728370e+02 2.214871e+02 1.226736e+02 1.353463e+02 1.772464e+02
## [746] 2.527296e+02 2.494632e+02 1.226189e+02 6.618225e+01 3.085971e+02
## [751] 4.186943e+02 4.051494e+02 2.539221e+02 9.599693e+01 1.549605e+02
## [756] 4.780744e+01 1.270227e+02 1.775353e+02 2.290947e+02 2.635770e+02
## [761] 2.064430e+02 1.602718e+01 7.987213e+01 1.075693e+02 3.326313e+01
## [766] 1.442354e+01 8.044755e+01 1.546810e+02 1.398709e+02 5.545378e+01
## [771] 2.234002e+02 1.813947e+02 2.980035e+02 2.412717e+02 7.315885e+01
## [776] 3.672868e+02 4.001564e+02 2.753894e+02 7.538970e+01 1.289544e+02
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## [786] 1.385936e+02 1.681165e+02 1.011671e+02 1.101425e+02 2.097235e+02
## [791] 2.945125e+02 2.965730e+02 2.155111e+02 1.471990e+02 8.765464e+01
## [796] 1.365625e+02 2.817917e+02 1.118873e+02 6.367942e+01 2.573847e+01
## [801] 1.336390e+02 7.644885e+01 3.607784e+01 5.102250e+01 1.199218e+02
## [806] 2.174366e+02 1.470770e+02 7.967739e+01 2.558451e+01 1.320331e+02
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## [826] 2.107296e+02 3.190383e+02 3.943285e+02 3.450889e+02 1.561106e+02
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## [1666] 1.053662e+01 1.487383e+01 1.081297e+01 1.005107e+01 5.687927e+00
## [1671] 5.681600e+00 1.072534e+01 3.713549e+00 6.047419e+00 1.178428e+00
## [1676] 2.427242e-01 5.766342e+00 6.769431e+00 5.660245e+00 4.712542e+00
## [1681] 3.037383e+00 2.636116e+00 4.546687e+00 3.840141e+00 2.374235e+00
## [1686] 3.731512e-01 2.240963e-01 6.002789e-01 2.536056e+00 5.231440e-01
## [1691] 5.554369e+00 5.812450e+00 6.663022e-01 2.912486e+00 5.483171e+00
## [1696] 4.718529e+00 5.791052e+00 1.232920e+00 4.935394e-01 4.497395e-03
## [1701] 4.780236e+00 3.035671e+00 4.240866e+00 8.819625e+00 5.065247e+00
## [1706] 5.537546e+00 2.149273e+00 9.716097e-01 2.675352e+00 3.898072e+00

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## [1716] 4.867743e+00 2.324266e+00 1.203227e+00 3.167916e+00 2.888471e+00
## [1721] 1.809410e+00 5.361008e+00 5.295344e+00 5.951724e+00 3.628356e+00
## [1726] 1.712392e+00 6.271182e+00 3.604031e+00 5.514207e+00 6.986343e+00
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## [1746] 3.985516e+00 2.315609e+00 9.462716e-01 1.627809e+00 2.263881e+00
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## [1806] 4.193584e+00 4.653399e-01 1.180939e+00 1.771039e+00 2.992475e+00
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## [1911] 1.172729e+01 7.170977e+00 1.161061e-01 1.101181e+01 1.469341e+01
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## [1946] 1.399374e+01 3.145974e-01 6.462313e+00 1.323758e+00 9.153737e-01
## [1951] 8.722261e-01 4.415944e-01 2.334027e+00 6.341935e-01 4.137995e+00
## [1956] 4.177150e+00 9.328308e+00 3.349650e+00 3.081486e+00 1.699534e+00
## [1961] 1.713911e+00 6.027133e+00 6.511799e+00 2.298269e+00 1.610744e+00
## [1966] 1.007493e+00 3.975424e+00 8.301476e-01 6.010766e+00 3.765258e+00
## [1971] 2.321268e+00 1.963331e+00 4.549191e+00 4.192938e+00 6.460568e+00
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## [1991] 1.901185e+00 3.089229e+00 4.767322e-01 1.444123e+00 3.889477e+00
## [1996] 3.903238e-01 4.042139e+00 2.312319e+00 5.140647e+00 6.983205e-01
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## [2006] 8.784859e-01 7.016557e+00 3.609058e+00 8.766013e-01 6.598021e+00
## [2011] 4.598243e+00 1.123997e+00 3.373644e+00 5.014543e+00 9.235505e-01
## [2016] 3.939932e+00 3.542297e+00 3.165845e+00 4.556497e+00 3.747621e+00
## [2021] 4.037869e-01 1.341445e+00 2.717239e-01 3.815676e+00 2.790416e-01
## [2026] 1.829819e-01 7.811420e-01 6.300471e-01 5.058663e-01 4.674970e-01
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## [2056] 3.043564e+00 4.296796e+00 1.617587e+00 2.570563e+01 3.882721e+01
## [2061] 3.696039e+01 4.329422e+00 5.869121e+01 7.492170e+01 7.360879e+01
## [2066] 4.129582e+01 4.175607e+00 4.431371e+01 4.149930e+01 1.378195e+01
## [2071] 3.471716e+01 2.324498e+01 9.130310e+01 9.992672e+01 9.789485e+00
## [2076] 7.170063e+01 8.278140e+01 5.495536e-01 1.995800e+02 2.618588e+02
## [2081] 1.604644e+02 1.942784e+01 1.907829e+02 2.529863e+02 2.224363e+02
## [2086] 1.302630e+02 8.003404e+01 5.959978e+01 2.738557e+01 7.143925e+00
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## [2096] 4.942028e+01 6.145788e+01 1.096780e+02 1.278522e+02 4.626338e+01
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## [2156] 2.383163e+02 2.297936e+02 1.641404e+02 1.228885e+02 2.129445e+02
## [2161] 2.355814e+02 9.016399e+01 8.143811e+01 1.794047e+02 1.959876e+02
## [2166] 1.687621e+02 1.172983e+02 9.842109e+01 1.230518e+02 1.072830e+02
## [2171] 8.096791e+01 6.462877e+01 4.220182e+01 4.435774e+00 2.362114e+01
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## [2226] 2.267458e+02 1.276692e+02 1.908099e+01 6.210863e+01 6.655881e+01
## [2231] 4.893682e+01 9.732588e+00 9.463299e+00 2.845511e+01 4.844312e+01
## [2236] 4.057006e+01 1.950981e+01 9.134747e+00 1.471583e+00 2.480917e+01
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## [2511] 1.437942e+00 3.042651e-01 3.644986e+00 3.944874e+00 7.555717e+00
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## [2596] 3.129035e+00 7.241357e+00 2.749806e+00 8.016499e+00 6.570201e+00
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## [4346] 3.738662e-01 4.522113e+01 5.507416e+01 1.452077e+01 1.785482e+01
## [4351] 4.819679e+01 4.973371e+01 5.706916e+01 4.835593e+01 2.229101e+01
## [4356] 9.040971e+00 2.811017e+00 1.936330e+01 3.721751e+01 4.757976e+01
## [4361] 5.966091e+01 6.030858e+01 5.118879e+01 4.000151e+01 3.008457e+01
## [4366] 1.959843e+01 1.416709e+01 2.216412e+00 4.747064e-01 6.556790e+00
## [4371] 8.684259e+00 1.050539e+01 1.203708e+01 1.154989e+01 6.041409e+00
## [4376] 1.260137e+01 1.592775e+01 1.841400e+01 2.015616e+01 1.949724e+01
## [4381] 1.437406e+01 2.257289e+01 2.054623e+01 1.772687e+01 1.609714e+01
## [4386] 1.189457e+01 2.067590e+01 7.597500e+00 1.141511e+01 8.754350e+00
## [4391] 6.447673e+00 7.952027e+00 1.809354e+00 2.237325e+00 8.520478e+00
## [4396] 5.944054e+00 1.031139e+00 2.332221e+00 4.785583e+00 3.259007e+00
## [4401] 9.163751e+00 3.076815e+00 8.994692e+00 1.167873e+00 2.045316e+00
## [4406] 9.944363e-01 7.843769e+00 1.388431e+01 1.123661e+01 6.391037e+00

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## [4421] 1.465166e+00 4.619794e+00 1.130623e+01 6.479384e+00 5.230246e+00
## [4426] 2.366529e+00 9.836162e-02 4.267758e+00 5.723626e+00 3.155597e+00
## [4431] 1.084033e+00 5.473368e-01 4.432193e-02 6.660526e+00 8.876963e+00
## [4436] 9.391079e+00 1.689112e-01 2.091026e+00 1.931751e+00 2.697012e+00
## [4441] 9.839190e-01 3.222764e+00 1.416802e+00 2.543136e+00 2.466785e+00
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## [6131] 3.123248e+00 2.626602e+00 4.319973e-01 3.121959e+00 3.652778e+00
## [6136] 2.658055e+00 4.076143e-01 2.189865e+00 1.146300e+00 3.661677e+00
## [6141] 1.971025e+00 6.125348e-01 1.293140e+00 3.482448e+00 1.708452e+00
## [6146] 2.257610e+00 1.726532e+00 3.018072e+00 1.333796e+00 2.865175e+00
## [6151] 2.175073e+00 4.206480e+00 6.608216e+00 1.543891e+00 2.378319e+00
## [6156] 8.091363e-01 4.077207e+00 1.181894e+00 2.403967e+00 5.846518e+00
## [6161] 3.872739e+00 2.182864e+00 9.940460e-01 1.715076e+00 7.525957e+00
## [6166] 1.304232e+00 3.562896e+00 2.605589e+00 1.840283e+00 1.377914e+00
## [6171] 1.496765e+00 3.686790e+00 1.401063e+01 1.970261e+01 1.726728e+01
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## [6181] 4.836300e+01 6.041649e+01 4.406688e+01 2.390447e+01 1.259090e+01
## [6186] 2.896097e+01 3.222179e+00 5.620675e-01 1.863458e+01 3.201907e+01
## [6191] 1.190688e+02 1.064752e+02 4.681197e+01 1.823814e+01 5.743266e+01
## [6196] 5.113346e+01 1.160012e+01 2.019894e+01 2.340964e+00 6.890288e+01
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## [6206] 4.732935e+01 1.196673e+02 1.186278e+02 8.060383e+01 4.155669e+01
## [6211] 3.383821e+01 5.942727e+01 5.306408e+01 2.062363e+01 1.724113e+01
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## [7026] 4.494993e+01 1.532927e+02 2.715916e+02 2.511959e+02 7.605428e+01
## [7031] 1.979928e+02 3.927406e+02 2.895111e+02 6.541927e+01 1.148774e+02
## [7036] 1.214699e+02 5.884708e+01 5.087870e+01 1.327073e+02 1.028468e+02
## [7041] 4.153648e+00 1.283215e+02 2.140648e+02 1.920081e+02 6.435006e+01
## [7046] 8.230297e+00 1.755115e+01 7.639297e+01 2.959825e+01 5.241799e+00
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## [7061] 1.494148e+02 2.234162e+02 2.848050e+02 2.701907e+02 1.938350e+02
## [7066] 6.780993e+01 2.960127e+01 9.260742e+01 9.410677e+01 1.201009e+02
## [7071] 1.401480e+02 1.224199e+02 9.186879e+01 3.654640e+01 1.897175e+01
## [7076] 4.484299e+00 1.094200e+00 3.022464e-01 3.498183e+00 1.045588e+02
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## [7096] 1.469684e+02 6.964574e+01 2.316692e+01 5.780604e+01 1.240147e+02
## [7101] 2.412069e+02 2.611390e+02 1.592657e+02 1.779021e+01 3.354311e+01
## [7106] 6.436306e+01 1.204481e+02 1.667835e+02 1.794529e+02 1.508090e+02

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## [7916] 1.353965e-01 2.429808e+00 5.657811e-01 9.224035e-01 5.415783e-01

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## [7926] 3.516816e+00 6.789628e+00 6.479421e+00 2.556391e+00 3.850804e+00
## [7931] 5.579075e+00 2.037078e+00 1.695955e+00 2.084326e+00 2.115971e+00
## [7936] 5.283012e+00 2.313596e+00 2.611222e+00 3.638751e+00 9.298496e-01
## [7941] 1.730348e+00 2.112782e-01 2.538154e+00 4.505221e+00 2.745882e+00
## [7946] 3.925808e+00 2.059298e+00 2.285992e+00 2.019148e+00 8.341783e-01
## [7951] 7.306409e+00 1.147935e+00 3.259300e+00 4.641853e-01 2.490851e+00
## [7956] 6.758078e+00 5.802131e+00 2.983094e-01 2.271364e+00 7.703689e+00
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## [7971] 1.761337e+00 1.022416e+00 6.573059e+00 4.300148e+00 1.546094e+00
## [7976] 1.997169e+00 3.861012e+00 3.862536e+00 6.101715e-01 2.124809e+00
## [7981] 2.831245e+00 4.757923e+00 2.684475e+00 3.920742e+00 6.392402e-02
## [7986] 2.317552e+00 3.072854e+00 1.022091e+00 4.892783e+00 1.331045e+00
## [7991] 5.860480e+00 1.614428e+00 5.367708e+00 1.994692e+00 2.020652e+00
## [7996] 2.351897e+00 1.415977e+00 9.523384e-01 1.683054e+00 2.810357e+00
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## [8076] 3.288822e-02 3.829507e+00 1.392123e+00 3.866400e-01 1.242332e+00
## [8081] 3.291978e+00 1.223005e+00 2.181149e+00 8.240831e+00 4.004220e-01
## [8086] 4.032891e+00 3.792756e+00 8.534219e-01 6.131877e+00 3.854745e+00
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## [8216] 4.239350e+00 2.486861e+00 2.338082e+00 4.324466e-01 1.409691e+01
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## [8246] 1.382441e+02 1.359014e+02 1.255582e+02 3.574319e+01 3.429999e+01
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## [8421] 6.797526e+01 6.061644e+00 7.251607e+01 1.141164e+02 1.015634e+02
## [8426] 3.218327e+01 2.811156e+01 2.591019e+01 7.316913e-01 1.735803e+01
## [8431] 4.438915e+01 3.740503e+01 2.821605e+01 3.368056e+00 8.419361e+01
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## [9711] 6.543988e+01 1.153484e+02 3.290927e+02 4.009226e+02 3.413602e+02
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## [9721] 6.836928e+01 1.757802e+01 1.285922e+02 1.588646e+02 3.447604e+01
## [9726] 9.763794e+01 2.977490e+02 2.686195e+02 1.950299e+01 1.408588e+02
## [9731] 1.435306e+02 1.032027e+02 6.071086e+01 9.322699e+01 2.590875e+02
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## [13276] 3.778315e+01 6.970552e+01 7.855385e+01 7.814175e+01 7.142073e+01
## [13281] 6.783031e+01 7.010645e+01 7.140796e+01 5.955095e+01 5.012364e+01
## [13286] 5.932006e+01 5.260243e+01 4.430464e+01 3.756068e+01 3.035793e+01
## [13291] 2.555570e+01

```

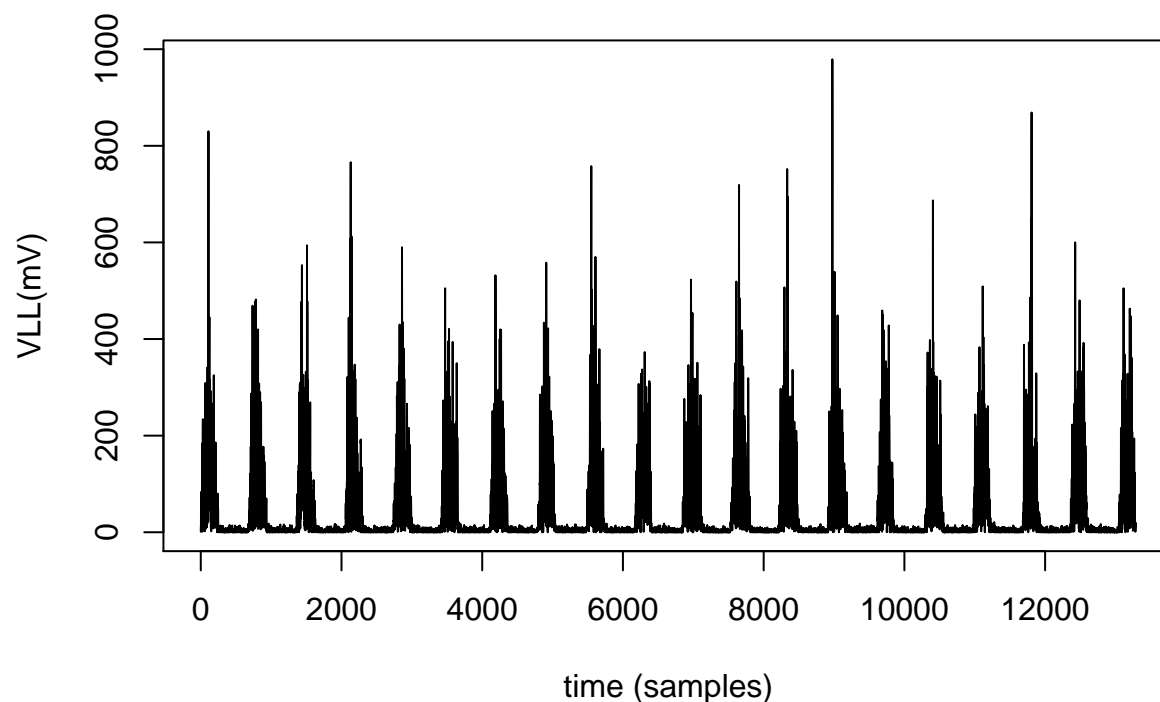
```
## Full-wave rectified EMG
```

```

emgrect <- rectification(emgraw, rtype = "fullwave", data.name = "VLL")
plot(emgrect, main = "Rectified EMG")

```

## Rectified EMG



```
emgrect # raw EMG data full-wave rectified
```

```
## EMG Object : VLL
## Number of samples: 13291
## Units: mV
## Duration (seconds): 8.860667
## Samplingrate (Hertz): 1500
## Values:
## [1] 10 1 36 37 25 7 20 60 84 79 9 56 72 55 34 54 50
## [18] 1 44 97 168 184 141 114 66 7 93 197 221 234 153 50 103 164
## [35] 174 152 78 21 3 36 144 136 70 11 65 70 75 87 89 84 29
## [52] 63 117 108 46 42 2 27 5 150 179 15 302 309 122 91 183 143
## [69] 18 63 7 59 191 225 156 71 40 74 139 103 35 68 10 158 207
## [86] 217 112 12 31 31 17 17 76 173 247 342 296 303 112 200 249 236
## [103] 219 220 213 22 161 607 830 606 147 128 218 261 174 123 61 149 241
## [120] 309 372 442 445 249 61 126 244 315 303 237 68 88 210 258 249 206
## [137] 64 293 234 44 106 202 120 8 83 86 19 13 2 34 61 51 125
## [154] 236 216 77 66 90 10 31 75 74 51 14 12 16 37 16 29 46
## [171] 10 23 31 15 95 23 124 233 267 244 149 8 153 270 325 244 94
## [188] 12 100 154 148 123 88 32 20 22 75 74 29 22 89 112 131 138
## [205] 113 60 34 127 163 186 164 143 112 62 41 90 61 20 15 34 22
## [222] 29 14 8 15 38 39 30 21 13 4 0 4 12 16 35 43 55
## [239] 75 80 50 11 25 41 45 50 43 23 0 0 3 1 4 5 7
## [256] 12 8 13 12 9 6 0 4 1 5 6 9 5 3 6 7 4
## [273] 4 2 1 3 6 7 14 10 12 10 7 0 0 2 8 7 13
## [290] 2 0 0 2 1 3 1 7 4 5 6 0 2 4 5 12 5
```

##	[307]	13	1	4	4	0	5	5	13	2	4	7	1	4	6	0	8	2
##	[324]	0	4	5	3	0	0	1	3	2	4	0	7	6	0	2	4	0
##	[341]	2	0	3	0	1	0	3	5	5	5	9	6	1	7	6	0	0
##	[358]	5	0	0	3	3	3	3	1	5	1	4	0	1	8	8	5	6
##	[375]	3	3	0	5	1	0	4	2	1	2	1	0	5	1	0	10	3
##	[392]	5	5	0	2	0	1	1	8	5	7	11	11	8	6	5	6	15
##	[409]	15	13	13	0	1	3	0	1	0	5	6	6	3	2	3	5	2
##	[426]	7	8	10	12	8	5	7	6	8	1	3	7	6	4	1	8	1
##	[443]	0	2	5	8	14	10	9	3	0	0	5	5	2	0	1	6	3
##	[460]	3	0	1	5	0	1	1	0	0	0	6	4	0	3	3	0	1
##	[477]	6	6	5	2	4	3	1	5	7	8	8	14	5	0	1	0	4
##	[494]	0	0	1	1	3	0	5	5	2	6	6	1	2	2	0	11	2
##	[511]	1	2	5	0	9	1	8	4	1	7	7	3	2	0	3	11	7
##	[528]	4	2	1	2	5	4	1	2	5	6	4	4	0	1	13	3	8
##	[545]	0	1	5	4	3	7	2	7	14	12	7	9	3	0	0	3	0
##	[562]	3	1	0	2	2	3	8	10	4	3	0	5	0	5	1	0	3
##	[579]	0	2	4	4	0	6	2	4	0	3	0	0	0	2	3	1	0
##	[596]	5	4	1	2	0	0	1	5	0	5	5	2	1	9	7	0	0
##	[613]	1	0	0	0	6	0	4	2	3	6	3	2	7	0	0	1	2
##	[630]	1	2	0	1	1	0	4	0	2	5	1	0	0	2	1	0	2
##	[647]	0	1	0	0	0	7	1	1	1	4	4	0	0	0	0	6	4
##	[664]	6	2	0	1	4	1	0	3	5	6	3	3	3	11	18	12	5
##	[681]	3	4	3	4	2	5	6	19	15	35	44	9	43	72	71	40	28
##	[698]	32	48	30	97	121	80	21	9	5	59	50	97	177	175	139	17	179
##	[715]	287	281	210	123	74	42	23	11	30	8	13	36	85	111	82	82	85
##	[732]	61	5	223	342	469	385	199	3	108	96	94	31	73	157	298	380	331
##	[749]	184	75	257	341	278	176	284	225	63	7	97	189	195	41	55	101	41
##	[766]	8	92	207	247	83	103	101	275	293	10	337	478	463	340	163	79	268
##	[783]	482	461	240	53	13	72	61	58	193	266	255	245	233	21	165	39	136
##	[800]	58	66	35	72	99	81	228	218	199	123	18	34	22	275	420	215	7
##	[817]	247	231	91	24	121	252	307	263	156	29	119	268	308	187	75	67	131
##	[834]	55	37	64	25	130	16	24	163	258	290	262	193	143	100	73	42	25
##	[851]	6	78	153	169	193	269	258	174	48	23	59	69	67	86	104	98	101
##	[868]	23	25	12	19	21	41	25	9	24	50	104	139	141	175	109	69	125
##	[885]	116	87	89	25	143	177	141	156	151	139	82	11	81	147	158	122	28
##	[902]	58	117	146	143	110	95	66	48	33	14	9	32	46	61	62	56	37
##	[919]	25	16	13	18	23	31	39	66	52	13	39	58	61	70	56	23	1
##	[936]	1	6	8	5	3	0	5	0	0	5	12	10	3	0	0	8	0
##	[953]	6	10	11	10	6	5	2	8	8	14	18	11	10	8	0	0	2
##	[970]	1	2	7	15	6	0	2	5	3	5	3	2	0	0	2	0	2
##	[987]	1	0	2	4	11	7	2	4	6	0	10	7	4	2	13	9	7
##	[1004]	6	0	1	3	0	5	9	9	4	6	4	0	0	0	3	1	0
##	[1021]	4	0	3	7	9	9	0	5	0	8	2	1	7	5	6	2	9
##	[1038]	1	5	4	3	7	2	6	9	5	4	1	0	2	0	0	1	2
##	[1055]	0	3	2	2	8	1	4	2	0	0	1	3	5	4	3	1	0
##	[1072]	4	4	2	4	6	4	5	2	7	10	9	10	10	0	4	0	0
##	[1089]	1	1	4	6	4	6	11	7	4	10	5	5	0	0	0	1	6
##	[1106]	1	0	5	9	6	4	0	0	1	3	4	9	6	10	12	7	0
##	[1123]	0	5	5	4	2	5	10	16	13	10	1	5	3	5	5	4	5
##	[1140]	0	0	1	1	2	0	0	0	2	1	2	3	1	1	0	0	1
##	[1157]	3	6	0	1	4	1	1	7	8	4	1	3	0	1	9	11	6
##	[1174]	3	2	3	10	10	8	16	9	8	7	4	2	2	8	0	0	6
##	[1191]	3	3	0	0	6	13	1	0	0	2	6	2	0	0	5	4	0
##	[1208]	3	0	1	1	7	1	0	1	4	0	0	3	5	8	3	9	6

##	[1225]	5	6	0	5	2	0	1	2	3	5	1	0	0	6	1	3	1
##	[1242]	2	4	2	3	0	4	1	1	5	5	6	2	2	2	2	0	1
##	[1259]	7	8	5	8	3	10	5	11	5	15	3	9	5	4	5	5	0
##	[1276]	2	6	2	0	2	7	8	10	6	9	4	9	6	11	8	4	6
##	[1293]	3	4	2	4	14	0	4	2	0	1	5	2	0	1	2	5	1
##	[1310]	2	5	0	3	1	3	5	0	1	0	2	0	5	0	5	4	1
##	[1327]	4	1	0	1	0	0	7	0	3	2	4	5	0	0	6	5	6
##	[1344]	7	3	5	5	0	2	1	8	10	2	2	1	2	6	4	2	0
##	[1361]	7	11	24	34	32	20	16	11	0	29	79	65	26	13	28	24	9
##	[1378]	5	59	58	22	7	22	56	83	4	126	114	86	5	96	139	105	90
##	[1395]	0	152	120	3	168	290	270	161	112	81	51	34	173	301	307	180	23
##	[1412]	77	127	8	310	247	28	229	257	225	237	264	239	117	44	193	269	339
##	[1429]	379	451	477	377	466	243	178	365	514	553	367	219	166	130	82	113	45
##	[1446]	73	141	235	100	128	242	196	48	55	222	326	291	167	64	224	239	256
##	[1463]	192	129	84	195	282	158	27	122	97	79	256	298	167	13	23	6	38
##	[1480]	25	129	166	57	6	188	231	139	4	65	59	112	166	296	332	296	241
##	[1497]	181	112	11	135	210	170	127	92	61	47	20	104	451	594	306	98	361
##	[1514]	478	450	281	104	40	103	141	32	308	315	246	211	149	14	56	7	41
##	[1531]	16	100	164	159	0	74	39	3	97	166	164	196	214	219	163	107	26
##	[1548]	23	87	136	140	137	159	210	269	221	120	32	2	27	9	59	52	6
##	[1565]	78	114	124	85	61	37	22	1	3	5	6	0	5	2	11	31	25
##	[1582]	9	5	3	10	13	6	2	8	0	22	37	46	49	78	88	72	57
##	[1599]	20	19	56	91	105	108	102	94	97	55	10	5	0	8	21	26	13
##	[1616]	19	17	11	13	38	65	11	29	23	5	28	20	12	4	5	5	14
##	[1633]	10	6	0	0	1	4	6	4	2	1	11	6	6	4	4	13	4
##	[1650]	2	9	7	6	5	8	1	1	4	5	2	0	6	2	0	2	3
##	[1667]	9	7	8	5	6	13	8	12	6	8	2	0	0	0	1	7	0
##	[1684]	0	1	3	4	5	8	6	1	0	5	3	0	0	2	2	4	4
##	[1701]	1	7	0	6	4	6	1	0	2	4	8	0	9	3	7	0	2
##	[1718]	3	8	9	5	1	0	2	1	0	6	3	7	5	0	1	4	0
##	[1735]	2	0	3	0	4	3	4	1	3	1	0	5	1	0	1	3	1
##	[1752]	0	0	1	5	1	1	5	6	2	2	0	2	4	3	6	5	0
##	[1769]	5	0	0	1	2	0	0	0	3	5	5	1	3	0	4	7	6
##	[1786]	2	9	5	2	1	10	2	9	8	6	10	8	11	12	7	4	5
##	[1803]	0	3	1	4	0	0	0	6	2	6	1	2	3	3	5	0	4
##	[1820]	2	0	0	0	2	0	1	1	1	1	4	12	9	7	9	7	1
##	[1837]	0	0	0	6	0	0	6	3	6	4	11	6	1	1	6	8	12
##	[1854]	6	9	3	0	6	5	3	1	1	2	2	0	0	1	2	4	4
##	[1871]	4	5	3	0	2	5	2	0	1	1	1	5	0	3	3	0	6
##	[1888]	2	3	3	3	8	6	6	9	0	2	0	3	2	1	4	16	16
##	[1905]	6	2	2	9	13	12	17	16	11	0	6	8	12	9	14	10	0
##	[1922]	0	7	13	0	13	14	7	2	0	0	6	6	6	0	2	4	1
##	[1939]	0	5	3	9	7	8	4	10	2	5	1	1	1	0	2	1	4
##	[1956]	5	12	8	2	7	4	1	3	0	0	0	4	2	5	5	5	6
##	[1973]	0	0	3	6	4	7	2	1	1	2	8	5	0	3	2	1	0
##	[1990]	0	2	4	1	0	3	0	5	1	7	2	2	0	7	3	3	3
##	[2007]	4	2	0	7	7	5	1	1	3	0	0	0	2	2	1	0	1
##	[2024]	3	0	0	1	1	1	0	0	3	6	3	2	5	9	9	2	8
##	[2041]	12	4	12	8	2	4	6	6	0	2	3	0	2	9	6	2	0
##	[2058]	2	26	49	60	27	32	64	83	69	33	9	14	9	63	63	57	90
##	[2075]	16	72	104	34	191	321	291	151	27	132	156	109	90	95	84	80	85
##	[2092]	61	73	97	81	72	59	0	41	23	51	268	444	293	35	278	326	160
##	[2109]	76	29	84	194	244	258	210	174	59	2	21	60	15	13	139	249	232
##	[2126]	217	608	442	151	659	766	623	469	150	190	265	107	51	1	43	133	215

```

## [2143] 437 612 313 72 40 179 323 347 331 323 252 141 14 76 117 98 95
## [2160] 236 333 254 111 5 39 43 17 18 67 81 83 93 95 66 57 54
## [2177] 48 6 213 262 63 38 14 23 33 164 330 347 268 104 46 107 170
## [2194] 213 204 251 317 228 55 50 57 27 65 159 135 4 30 67 151 74
## [2211] 18 99 166 147 146 192 191 212 237 232 182 66 20 72 164 157 109
## [2228] 29 47 58 46 5 3 10 29 22 2 20 42 26 10 66 109 124
## [2245] 112 72 81 119 71 31 21 15 34 45 8 31 62 27 22 90 59
## [2262] 42 42 81 100 87 59 37 13 0 57 140 192 184 190 121 29 52
## [2279] 61 9 0 49 118 135 130 99 63 57 56 45 41 34 27 2 4
## [2296] 17 28 34 23 21 6 0 2 4 0 0 5 8 6 0 0 13
## [2313] 5 4 10 7 0 2 6 0 6 12 11 11 10 12 9 7 3
## [2330] 10 12 12 9 0 0 1 4 0 9 3 13 5 11 7 1 5
## [2347] 0 6 4 4 8 0 3 3 6 2 7 9 2 4 5 0 2
## [2364] 2 6 7 6 3 0 1 5 6 2 0 5 2 4 2 1 4
## [2381] 3 3 10 0 3 0 1 6 1 0 8 8 5 1 0 1 1
## [2398] 3 1 6 0 1 3 1 6 1 4 0 4 0 3 0 4 2
## [2415] 1 0 0 2 0 2 6 5 6 4 2 4 0 0 0 0 1
## [2432] 5 1 5 2 1 1 2 3 2 3 4 0 4 5 0 2 0
## [2449] 3 0 0 4 0 1 3 1 1 6 6 4 1 0 4 0 6
## [2466] 9 12 14 9 13 8 6 0 7 8 5 4 2 3 2 3 5
## [2483] 7 7 0 1 7 0 7 3 0 3 0 3 0 9 5 2 5
## [2500] 0 3 9 9 3 11 6 1 5 3 6 5 7 3 2 3 8
## [2517] 6 6 0 1 5 1 0 2 7 2 7 5 2 2 0 2 0
## [2534] 9 4 3 0 0 1 2 2 6 5 5 6 2 2 1 1 4
## [2551] 1 5 4 6 0 0 0 1 0 6 0 1 4 1 0 1 11
## [2568] 6 6 1 1 1 4 3 1 8 1 5 0 0 5 3 4 0
## [2585] 0 3 3 3 9 2 1 4 5 9 7 11 1 5 1 1 0
## [2602] 4 3 1 11 0 6 10 5 6 1 4 0 5 4 3 0 10
## [2619] 12 3 8 9 4 0 0 3 5 0 5 6 2 6 0 6 0
## [2636] 3 0 2 0 5 0 4 0 0 2 2 5 6 0 4 0 4
## [2653] 1 12 6 1 3 4 1 3 3 0 4 1 0 2 7 7 3
## [2670] 3 0 5 3 1 0 2 2 3 6 2 5 2 5 0 1 3
## [2687] 5 10 4 3 2 1 3 3 2 2 3 2 0 0 0 1 6
## [2704] 3 1 1 3 9 1 0 7 0 2 6 6 5 3 7 1 8
## [2721] 14 5 3 2 3 5 2 4 3 2 1 4 0 2 7 2 3
## [2738] 3 11 24 22 57 60 29 8 47 64 59 41 33 33 34 5 36
## [2755] 28 8 82 101 33 55 54 18 10 68 80 51 27 14 31 17 134
## [2772] 123 31 17 30 55 22 39 59 100 123 169 204 203 153 14 190 282
## [2789] 233 150 110 83 37 53 122 59 310 311 118 49 1 40 65 34 30
## [2806] 43 109 185 271 200 159 154 34 11 58 243 343 276 215 125 77 109
## [2823] 108 66 320 430 191 78 230 222 153 135 24 182 163 41 95 133 29
## [2840] 190 215 103 40 2 118 236 243 181 143 104 87 94 72 53 30 121
## [2857] 186 202 367 590 479 123 214 373 329 120 58 37 239 435 272 4 237
## [2874] 255 238 212 122 86 65 91 13 82 172 44 166 380 361 299 245 99
## [2891] 92 260 318 205 34 89 109 60 13 103 119 61 6 3 24 46 16
## [2908] 41 18 27 37 38 37 12 17 93 168 148 134 56 48 101 94 60
## [2925] 25 14 69 49 95 190 266 222 70 125 164 177 101 68 84 99 109
## [2942] 108 89 89 78 19 125 185 156 164 159 149 73 8 77 174 216 213
## [2959] 174 146 93 19 40 149 174 128 54 46 145 181 163 102 41 0 17
## [2976] 24 38 34 31 40 49 40 4 1 3 22 55 74 59 54 42 15
## [2993] 0 21 31 29 18 16 14 1 3 1 0 6 2 0 0 0 4
## [3010] 0 1 9 4 3 0 5 1 2 0 0 1 0 4 16 8 9
## [3027] 9 3 0 1 2 3 0 6 4 5 4 6 0 4 0 4 5
## [3044] 3 4 4 9 2 10 6 6 7 13 1 2 2 6 2 13 5

```

##	[3061]	7	10	7	0	12	7	0	1	4	2	0	5	2	7	4	6	0
##	[3078]	0	3	0	5	5	1	11	15	6	12	6	2	3	7	8	5	1
##	[3095]	1	0	0	0	1	3	6	1	0	0	0	13	2	4	1	1	3
##	[3112]	3	1	6	6	4	2	1	1	2	3	5	1	2	5	4	6	0
##	[3129]	1	1	1	5	3	0	2	5	4	1	4	2	6	7	0	2	0
##	[3146]	0	4	6	1	10	2	3	1	0	1	1	0	7	3	0	4	2
##	[3163]	0	7	10	5	1	3	7	0	2	2	2	0	0	0	0	0	1
##	[3180]	1	2	1	6	0	3	2	7	10	0	2	1	0	0	3	1	4
##	[3197]	2	8	7	8	1	1	2	4	5	3	2	0	0	1	1	0	1
##	[3214]	10	4	4	0	5	9	0	2	4	1	1	0	2	3	4	3	2
##	[3231]	6	5	0	1	2	0	5	0	6	2	2	3	0	2	2	8	1
##	[3248]	5	1	10	6	4	0	5	2	0	2	2	0	1	1	6	7	9
##	[3265]	5	0	5	4	10	6	5	0	1	2	3	10	1	0	2	3	1
##	[3282]	0	5	1	1	7	6	2	2	2	1	2	0	0	2	1	5	1
##	[3299]	2	6	0	2	3	2	2	0	0	6	0	4	0	0	3	0	1
##	[3316]	0	7	2	3	1	0	0	2	0	1	6	0	7	4	2	4	2
##	[3333]	7	7	8	0	0	0	2	2	0	4	2	6	9	2	0	4	0
##	[3350]	0	0	2	1	0	0	1	0	1	0	2	2	3	5	4	5	4
##	[3367]	5	2	2	2	6	7	10	10	0	0	4	5	1	0	6	10	9
##	[3384]	4	7	8	14	4	1	3	0	0	1	4	0	12	8	0	6	0
##	[3401]	1	1	1	2	2	5	7	3	2	0	2	2	5	13	8	0	0
##	[3418]	5	0	9	6	18	29	15	49	54	40	9	6	42	89	128	128	102
##	[3435]	56	1	49	87	77	47	11	11	20	44	193	273	187	72	40	18	40
##	[3452]	39	23	107	150	166	157	175	214	185	113	36	32	71	88	70	53	1
##	[3469]	50	112	267	492	505	309	38	79	106	103	120	189	126	106	132	119	68
##	[3486]	83	164	121	63	57	12	50	87	51	81	87	106	241	130	332	215	39
##	[3503]	66	128	199	210	125	30	1	31	121	197	222	129	59	270	275	245	210
##	[3520]	269	396	298	28	150	215	262	347	421	334	104	32	61	16	36	80	38
##	[3537]	56	281	232	12	86	46	18	52	108	147	207	196	4	230	189	102	94
##	[3554]	143	185	140	63	55	81	228	187	105	163	220	103	111	201	183	67	31
##	[3571]	92	2	54	171	225	135	57	194	199	394	270	27	86	141	168	113	58
##	[3588]	8	122	135	124	46	22	62	47	15	48	51	41	148	185	141	93	27
##	[3605]	0	72	116	124	121	156	224	217	70	119	209	181	101	6	36	53	62
##	[3622]	76	104	109	86	72	39	88	210	229	156	61	137	134	49	261	350	330
##	[3639]	211	126	103	72	17	64	149	196	186	165	162	123	70	29	6	6	8
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##	[3673]	6	0	6	2	9	9	2	13	18	11	4	3	3	3	0	4	4
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##	[4863]	206	74	54	0	3	14	91	90	101	178	182	161	90	192	434	349	80
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## [12190] 2 0 0 2 1 3 1 2 3 2 2 0 0 0 5 1 3
## [12207] 1 1 0 3 0 0 3 3 2 0 3 5 6 7 2 3 4
## [12224] 6 5 7 11 5 3 3 0 0 0 13 5 1 7 6 13 11

```

```

## [12241] 3 4 7 7 5 2 0 1 3 1 2 0 0 1 10 6 6
## [12258] 3 7 0 3 4 0 1 2 4 2 0 3 2 4 10 3 4
## [12275] 6 7 0 2 2 2 0 4 2 0 9 6 5 7 11 4 2
## [12292] 6 6 4 7 12 12 7 5 0 1 3 0 0 1 3 0 1
## [12309] 2 1 1 5 7 13 1 5 1 2 1 0 3 0 2 6 1
## [12326] 4 1 0 2 5 1 2 1 1 2 2 1 1 1 1 3 0
## [12343] 0 7 10 1 0 3 4 3 3 1 5 0 0 0 6 3 3
## [12360] 10 12 13 10 18 3 57 69 34 16 55 65 60 61 55 54 34
## [12377] 1 86 111 60 22 93 116 18 211 223 76 50 84 38 34 21 14
## [12394] 20 65 92 81 45 8 1 24 36 10 40 14 35 107 124 140 123
## [12411] 59 43 2 14 111 206 266 211 220 258 172 32 153 303 347 422 600
## [12428] 357 126 84 122 219 251 179 153 162 94 18 39 48 131 159 167 201
## [12445] 188 131 108 24 265 294 187 106 120 156 192 237 207 56 20 48 131
## [12462] 226 314 333 316 225 75 96 330 315 84 127 138 61 118 100 159 123
## [12479] 7 132 198 97 32 20 92 76 1 68 249 480 353 105 132 294 283
## [12496] 143 69 133 267 265 59 75 16 91 142 159 136 78 0 156 174 59
## [12513] 23 53 107 104 66 34 27 63 93 125 234 333 325 215 34 129 219
## [12530] 231 232 261 251 185 167 120 101 53 36 5 33 44 93 304 382 271
## [12547] 392 375 215 25 161 276 303 292 254 204 152 47 72 190 227 105 61
## [12564] 174 191 71 32 128 165 161 11 111 179 151 117 109 89 43 27 3
## [12581] 4 11 47 76 75 48 61 58 30 19 28 15 7 0 8 2 6
## [12598] 1 18 21 21 19 16 11 12 2 2 10 20 29 22 15 6 7
## [12615] 5 2 2 2 0 2 6 2 6 2 1 7 4 2 1 5 4
## [12632] 10 12 10 0 4 3 3 4 9 1 3 0 0 1 1 1 0
## [12649] 3 3 13 12 16 5 11 9 5 3 0 5 6 1 1 6 2
## [12666] 0 4 8 3 3 1 1 10 12 13 2 3 3 4 3 1 4
## [12683] 5 3 0 4 1 0 8 9 4 3 7 1 4 3 7 6 11
## [12700] 11 7 4 2 2 1 2 0 2 5 7 3 4 3 0 3 3
## [12717] 3 3 4 9 2 3 8 7 4 0 0 0 2 2 1 0 6
## [12734] 7 1 1 1 4 2 1 1 2 6 6 2 4 3 9 5 5
## [12751] 7 3 0 0 3 0 5 5 8 0 0 6 7 0 3 0 1
## [12768] 0 1 3 2 11 13 8 4 2 4 0 6 6 1 3 7 6
## [12785] 0 3 0 0 3 10 17 6 7 0 7 0 1 0 0 1 0
## [12802] 3 4 5 1 1 6 5 1 5 2 0 0 2 6 8 2 1
## [12819] 3 4 8 9 3 0 3 1 2 6 1 3 4 0 2 11 3
## [12836] 1 6 1 1 0 2 3 0 0 1 0 3 6 4 3 0 0
## [12853] 4 0 5 6 6 7 3 1 3 12 1 3 5 0 0 6 3
## [12870] 4 3 0 2 3 0 0 0 3 0 3 4 0 2 3 1 2
## [12887] 4 0 2 0 2 0 1 4 3 8 2 4 11 10 8 4 2
## [12904] 3 1 2 5 10 2 3 0 3 4 5 0 5 2 2 0 5
## [12921] 0 3 4 0 2 0 4 0 0 0 4 3 5 4 0 3 9
## [12938] 5 4 9 1 8 8 6 8 4 2 2 0 2 0 6 9 0
## [12955] 0 1 1 1 6 2 8 2 1 0 1 0 6 6 6 8 2
## [12972] 1 0 0 3 3 5 7 0 1 3 0 2 0 0 1 0 5
## [12989] 0 6 1 0 0 0 3 1 1 0 1 2 0 0 2 2 0
## [13006] 5 1 5 0 1 1 1 2 0 3 2 0 4 0 3 0 1
## [13023] 1 2 4 0 1 1 1 0 11 0 1 3 4 4 2 2 0
## [13040] 2 0 1 3 5 2 5 8 10 20 5 13 15 12 14 61 61
## [13057] 37 0 25 52 78 48 34 42 37 36 30 3 31 32 7 10 28
## [13074] 1 11 83 122 212 215 214 91 16 30 13 65 160 203 217 171 67
## [13091] 1 0 92 162 155 121 93 71 242 315 188 30 96 116 94 18 50
## [13108] 45 19 88 130 120 33 250 505 428 124 190 330 257 73 61 93 22
## [13125] 51 68 43 96 34 368 295 6 210 289 225 151 136 127 90 13 43
## [13142] 0 92 127 77 95 131 9 57 79 165 162 273 250 56 154 201 151

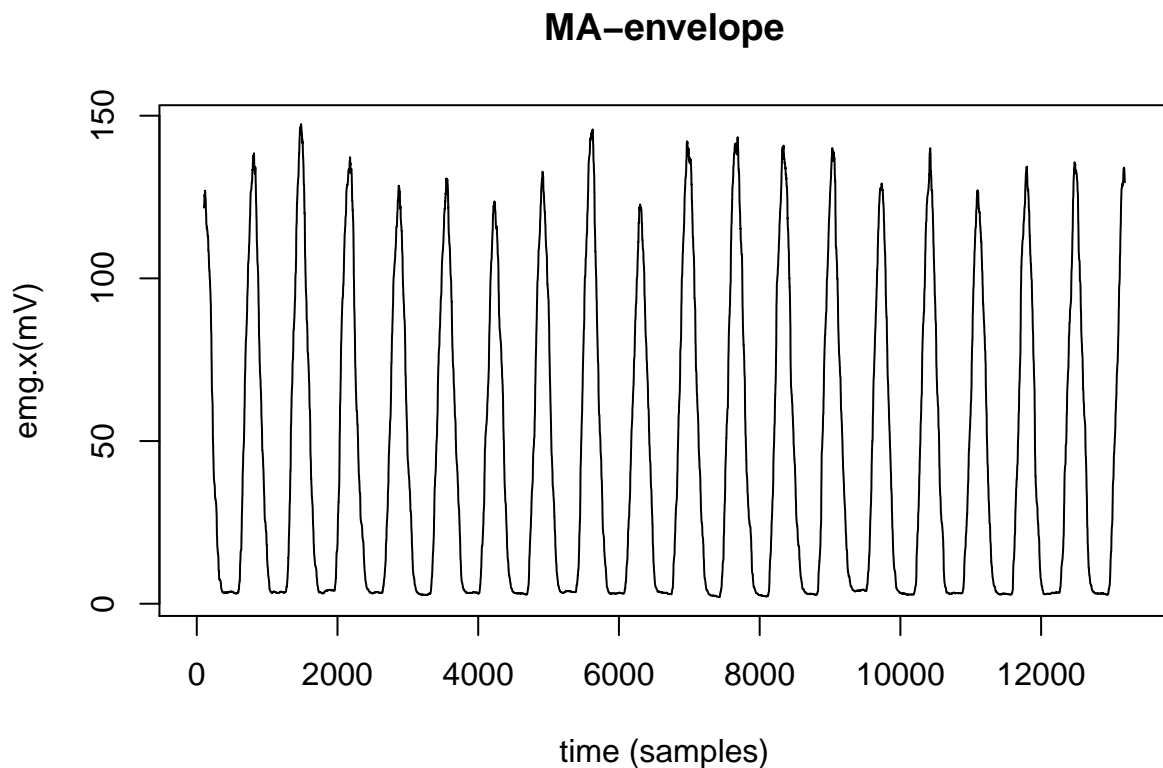
```



```
## [13159] 72 55 158 22 192 266 188 102 56 15 17 48 197 328 234 1 138
## [13176] 158 143 44 38 164 89 47 137 68 7 46 86 74 123 318 245 61
## [13193] 177 279 286 284 241 88 42 117 162 338 463 448 236 25 169 197 173
## [13210] 93 28 9 60 132 203 252 198 145 410 447 375 267 232 57 154 291
## [13227] 178 191 285 361 349 218 26 87 130 159 142 208 180 20 113 146 111
## [13244] 84 70 34 15 3 11 14 39 58 74 65 39 20 32 92 139 142
## [13261] 107 34 9 77 190 194 86 22 70 90 89 87 115 123 94 60 32
## [13278] 21 17 19 18 10 1 5 8 9 12 13 15 16 19
```

*#EMG Moving average*

```
emgrms <- envelope(emghpass, method = "MA", wsize = 100) # wsize; 100 ms, most common for all condition.
plot(emgrms, main = "MA-envelope")
```



emgrms

```
## EMG Object : emg.x
## Number of samples: 13291
## Units: mV
## Duration (seconds): 8.860667
## Samplingrate (Hertz): 1500
## Values:
## [1] NA NA NA NA NA NA
## [7] NA NA NA NA NA NA
## [13] NA NA NA NA NA NA
## [19] NA NA NA NA NA NA
## [25] NA NA NA NA NA NA
## [31] NA NA NA NA NA NA
```

##	[37]	NA	NA	NA	NA	NA	NA
##	[43]	NA	NA	NA	NA	NA	NA
##	[49]	NA	NA	NA	NA	NA	NA
##	[55]	NA	NA	NA	NA	NA	NA
##	[61]	NA	NA	NA	NA	NA	NA
##	[67]	NA	NA	NA	NA	NA	NA
##	[73]	NA	NA	NA	NA	NA	NA
##	[79]	NA	NA	NA	NA	NA	NA
##	[85]	NA	NA	NA	NA	NA	NA
##	[91]	NA	NA	NA	NA	NA	NA
##	[97]	NA	NA	NA	NA	121.764232	121.966388
##	[103]	122.168747	122.118071	122.093817	122.455426	123.189951	124.091265
##	[109]	124.790086	125.326434	125.651836	125.761166	125.343139	125.209196
##	[115]	125.694785	126.424874	126.804491	126.959018	126.772865	126.491796
##	[121]	125.986734	125.331980	124.804385	124.666430	124.636354	124.432469
##	[127]	123.902903	123.038423	121.909327	120.994984	120.329210	120.266690
##	[133]	119.890851	118.877182	117.784984	116.950213	116.427713	116.403107
##	[139]	116.341829	116.167293	115.894147	115.416452	115.291677	115.608630
##	[145]	115.747193	115.515313	115.261778	114.940928	114.717864	114.580047
##	[151]	114.533910	114.442509	113.969452	113.376918	112.991777	113.023271
##	[157]	113.083847	112.977844	113.006342	112.905686	112.131540	111.403844
##	[163]	111.122588	109.622167	108.505259	108.542041	108.398768	108.248294
##	[169]	108.153028	107.474426	106.550827	106.045408	105.418312	104.364423
##	[175]	103.455218	103.149077	102.967077	102.605108	102.417555	102.436259
##	[181]	102.210433	101.631734	100.659275	100.228853	100.031906	99.724034
##	[187]	99.515638	99.136371	98.248626	97.450130	96.822368	96.545877
##	[193]	96.331372	95.783429	94.973166	94.113163	93.149174	92.796967
##	[199]	92.650508	91.745210	89.530164	87.494154	85.922120	84.776381
##	[205]	83.942456	83.373984	82.936926	81.768684	78.902370	75.816626
##	[211]	74.631623	73.347851	70.973069	68.651845	66.637226	65.469147
##	[217]	64.827983	64.703563	64.330205	63.758933	63.136855	62.589427
##	[223]	62.050937	61.878714	60.905539	59.090487	56.679421	54.154911
##	[229]	51.838804	50.120483	49.156745	49.094720	48.284461	47.042708
##	[235]	45.872605	45.003871	44.535790	43.699859	42.087489	41.153156
##	[241]	40.953506	40.055201	38.878117	38.299230	38.237710	37.898308
##	[247]	37.692699	37.538052	37.217579	36.962368	36.886232	36.874937
##	[253]	36.776870	36.655786	36.147910	35.915092	35.380984	34.276302
##	[259]	33.248604	32.775730	32.580372	32.578657	32.588765	32.483436
##	[265]	32.231201	32.060999	31.944640	31.942262	31.895420	31.691515
##	[271]	31.534841	31.486912	31.231966	30.946461	30.782497	30.257634
##	[277]	30.116674	29.669354	28.898857	28.252715	28.000956	27.652081
##	[283]	26.639016	25.038390	23.234443	21.603932	20.768441	20.715794
##	[289]	20.139310	19.301135	18.358950	17.690596	17.302039	17.164785
##	[295]	17.006385	16.798935	16.440900	15.930831	15.586129	15.528841
##	[301]	15.539066	15.315295	15.088033	14.881409	14.779791	14.696269
##	[307]	14.312898	13.541503	12.480536	11.474553	10.610886	10.137170
##	[313]	9.923203	9.940726	9.703404	9.015120	8.226516	7.725814
##	[319]	7.523515	7.525438	7.449492	7.462054	7.440969	7.419244
##	[325]	7.390551	7.430191	7.373346	7.335510	7.356746	7.353120
##	[331]	7.302970	7.236645	7.169278	7.116982	7.067653	7.044136
##	[337]	6.953243	6.868245	6.771127	6.664516	6.609240	6.514004
##	[343]	6.221275	5.798585	5.394959	5.070256	4.825145	4.658417
##	[349]	4.628114	4.559920	4.503416	4.455379	4.362917	4.260366
##	[355]	4.173970	4.092323	3.989051	3.921858	3.828036	3.750921

##	[361]	3.709630	3.678592	3.698853	3.667435	3.663550	3.622285
##	[367]	3.582483	3.533747	3.509613	3.521911	3.504639	3.474148
##	[373]	3.472690	3.469409	3.462240	3.455156	3.463131	3.451897
##	[379]	3.430614	3.382599	3.359291	3.365036	3.373214	3.392926
##	[385]	3.381796	3.372892	3.369615	3.396204	3.413427	3.431290
##	[391]	3.436071	3.426408	3.436229	3.434276	3.427471	3.434267
##	[397]	3.429171	3.435664	3.394527	3.411182	3.421567	3.399165
##	[403]	3.406100	3.417527	3.429420	3.424285	3.430720	3.413290
##	[409]	3.423435	3.405370	3.403949	3.389150	3.412393	3.407389
##	[415]	3.424612	3.395068	3.406566	3.408076	3.388792	3.359850
##	[421]	3.328034	3.332928	3.313735	3.333695	3.355951	3.398418
##	[427]	3.404993	3.385923	3.396871	3.411266	3.431648	3.451570
##	[433]	3.466068	3.454098	3.464846	3.454632	3.454058	3.450577
##	[439]	3.451203	3.444659	3.461859	3.523179	3.523168	3.561704
##	[445]	3.551275	3.540046	3.553647	3.543931	3.520944	3.541915
##	[451]	3.536507	3.539403	3.586222	3.597162	3.548926	3.516722
##	[457]	3.544779	3.582013	3.590419	3.598950	3.619786	3.614272
##	[463]	3.618072	3.616292	3.623186	3.630653	3.610829	3.631301
##	[469]	3.638028	3.646768	3.667243	3.671713	3.703510	3.725263
##	[475]	3.724755	3.703813	3.693269	3.712767	3.693766	3.706881
##	[481]	3.716460	3.706193	3.716449	3.719483	3.723891	3.722538
##	[487]	3.730032	3.700539	3.708019	3.717616	3.680578	3.691588
##	[493]	3.669079	3.643799	3.650391	3.670652	3.691094	3.691198
##	[499]	3.697361	3.664050	3.654379	3.645963	3.643452	3.626062
##	[505]	3.644066	3.658038	3.648481	3.638495	3.653813	3.661170
##	[511]	3.672878	3.676735	3.613341	3.561280	3.536814	3.503778
##	[517]	3.500123	3.487315	3.488606	3.475870	3.462892	3.474087
##	[523]	3.462102	3.476768	3.507504	3.488741	3.447509	3.411674
##	[529]	3.374120	3.335925	3.326201	3.327346	3.321038	3.323630
##	[535]	3.313809	3.306729	3.279339	3.262504	3.264351	3.274645
##	[541]	3.268059	3.257453	3.258081	3.252487	3.258880	3.242745
##	[547]	3.225634	3.183148	3.175012	3.176235	3.158894	3.150475
##	[553]	3.132393	3.139137	3.145903	3.139204	3.123961	3.129395
##	[559]	3.127546	3.135931	3.142578	3.149066	3.149876	3.133334
##	[565]	3.140792	3.149673	3.164811	3.185084	3.183077	3.177021
##	[571]	3.156133	3.154783	3.163248	3.153533	3.148228	3.182808
##	[577]	3.245518	3.298752	3.312469	3.309885	3.345621	3.383617
##	[583]	3.378288	3.386110	3.364668	3.354153	3.359879	3.422346
##	[589]	3.426271	3.601744	3.747347	3.724391	3.940213	4.209494
##	[595]	4.414612	4.415132	4.462836	4.503451	4.493119	4.588979
##	[601]	5.213268	5.795188	6.055622	6.124841	6.337740	6.459647
##	[607]	6.545150	6.543657	6.725513	7.125499	7.398943	7.397156
##	[613]	8.143271	9.457609	10.965041	12.013272	12.460056	12.564315
##	[619]	12.976888	13.519836	14.294394	14.901778	15.498367	15.887505
##	[625]	16.107614	16.179607	16.243899	16.406346	16.415250	16.438716
##	[631]	16.462375	16.594710	16.988570	18.246582	19.699003	21.263768
##	[637]	21.927447	22.380069	23.801173	25.499154	26.839740	27.923145
##	[643]	28.466328	29.133219	29.970619	31.227285	32.464386	33.051466
##	[649]	33.368352	34.899799	36.940927	38.946242	40.178055	40.601951
##	[655]	41.343174	41.578268	42.207499	43.062548	44.164219	45.443996
##	[661]	46.458493	46.514435	46.906335	47.419849	47.573890	47.629503
##	[667]	48.019453	48.779460	49.449606	49.701684	50.799472	51.681347
##	[673]	53.129552	54.276942	54.618588	56.444401	58.415479	59.763073
##	[679]	60.105401	60.733419	62.403127	64.606563	67.253659	69.121007

##	[685]	69.458044	70.140752	70.974535	71.461537	72.009279	73.039533
##	[691]	74.494984	75.963708	77.023153	77.743146	78.177569	78.848729
##	[697]	80.219986	80.755626	81.068233	81.184630	81.847646	82.224785
##	[703]	82.395606	82.623667	83.219346	84.279949	84.982263	85.367953
##	[709]	85.490329	86.107698	86.903537	87.529278	88.264865	89.377262
##	[715]	89.533400	90.746753	92.812930	94.328047	94.874571	94.954195
##	[721]	95.395170	96.232090	96.992990	97.241286	97.646073	98.648097
##	[727]	100.229984	102.187533	103.896795	104.665876	104.730562	104.742168
##	[733]	104.960105	105.173562	105.463515	105.617259	106.151773	107.051127
##	[739]	107.248380	107.418685	108.140964	109.061586	109.829781	110.180436
##	[745]	110.316317	110.760371	111.416020	112.134990	112.915414	113.652943
##	[751]	114.402135	115.315168	116.316012	117.120660	117.765528	118.484092
##	[757]	118.844979	119.089092	119.981074	121.124902	122.284227	123.314881
##	[763]	124.154847	124.941182	125.642334	126.161531	126.552271	126.588616
##	[769]	126.837878	126.902528	126.944341	126.977599	126.992221	127.052545
##	[775]	127.276954	127.532299	127.826758	128.255920	128.696289	129.043509
##	[781]	129.435723	129.429762	129.650497	129.632006	129.708640	129.958448
##	[787]	130.176671	130.866940	131.873377	132.796170	133.130920	133.339528
##	[793]	133.507937	133.283550	133.354857	133.947078	134.958521	136.039420
##	[799]	136.950108	137.535074	137.477231	137.181773	137.103398	137.345853
##	[805]	137.591683	137.424620	137.367207	137.501362	137.802339	137.969587
##	[811]	137.908114	138.052445	138.467649	138.085982	137.079494	135.796425
##	[817]	134.805060	134.419701	134.447914	134.256331	133.948971	133.383566
##	[823]	132.973709	132.548888	132.306618	132.127684	132.193606	132.428297
##	[829]	132.791107	133.318918	133.729372	134.075742	134.143313	133.728889
##	[835]	132.551911	131.188400	129.721919	129.140562	128.744071	127.350233
##	[841]	125.697335	124.364590	123.313552	122.752238	122.148022	121.358546
##	[847]	120.170397	118.958022	118.363354	118.052877	116.574192	114.506328
##	[853]	112.535608	111.330812	110.908044	110.179482	109.960858	109.343561
##	[859]	108.462981	107.356445	106.075182	105.101456	105.082945	104.703429
##	[865]	104.178833	104.013941	103.975025	103.597014	102.849173	102.154850
##	[871]	101.890020	100.814409	99.979002	98.511575	97.322836	96.962152
##	[877]	95.153969	93.172175	91.820656	91.453567	90.816053	89.129501
##	[883]	86.916251	84.273192	82.394142	82.047402	81.368647	80.537690
##	[889]	80.048495	79.520643	78.522776	77.072850	75.610395	74.577268
##	[895]	73.885683	73.455939	72.813635	71.423852	70.874957	70.577050
##	[901]	70.478129	69.814193	69.449656	69.293135	69.089368	68.532060
##	[907]	67.502356	66.800738	66.408339	66.292467	65.640727	64.845524
##	[913]	64.216202	63.489577	62.408648	62.274205	61.078808	59.040203
##	[919]	57.502561	56.958199	56.889086	56.449245	55.629644	54.890909
##	[925]	54.671259	54.264419	53.234162	51.655188	49.708526	48.015699
##	[931]	47.246575	47.184398	47.205636	47.005712	46.805053	46.519020
##	[937]	46.423842	45.887320	45.011391	44.833530	44.664057	43.959962
##	[943]	43.025080	42.277411	41.943232	41.811177	41.359638	40.730114
##	[949]	40.020505	39.244365	38.515877	37.774781	36.873246	35.849398
##	[955]	35.047508	34.417326	33.704581	33.344973	33.129393	32.227980
##	[961]	31.079388	29.913080	28.886125	28.034686	27.243949	26.548128
##	[967]	26.041737	25.644727	25.591850	25.328969	25.276994	25.267862
##	[973]	25.230785	25.223604	25.156894	24.937148	24.675983	24.346051
##	[979]	23.868612	23.352212	22.984283	22.586665	22.550494	22.294718
##	[985]	22.338795	22.298659	22.070861	21.856495	21.157329	20.079437
##	[991]	19.125725	18.614066	18.224003	18.052143	18.063931	17.688127
##	[997]	16.881775	15.876255	14.738687	13.780463	13.213650	13.193753
##	[1003]	12.854135	12.343797	11.865940	11.533893	11.476455	11.423098

##	[1009]	11.218498	10.919466	10.572960	10.194537	9.779217	9.353672
##	[1015]	8.983185	8.662351	8.472247	8.388944	8.356321	8.226028
##	[1021]	8.001399	7.786942	7.586257	7.378888	7.197802	7.041524
##	[1027]	6.992556	6.828737	6.496928	5.991137	5.469750	5.028483
##	[1033]	4.687860	4.479265	4.488406	4.437668	4.341214	4.270386
##	[1039]	4.198451	4.121838	4.091495	4.052998	4.038711	3.990025
##	[1045]	3.951250	3.893011	3.811943	3.745419	3.725937	3.715990
##	[1051]	3.725749	3.684073	3.673020	3.636886	3.586135	3.542306
##	[1057]	3.517327	3.524076	3.517022	3.525789	3.504409	3.480060
##	[1063]	3.432838	3.391200	3.389931	3.387632	3.418695	3.395540
##	[1069]	3.396616	3.390694	3.409795	3.420241	3.393631	3.350545
##	[1075]	3.361393	3.394118	3.456523	3.486831	3.504344	3.537144
##	[1081]	3.532217	3.536530	3.550504	3.617928	3.654943	3.693618
##	[1087]	3.747449	3.748138	3.751965	3.756612	3.736941	3.717997
##	[1093]	3.709929	3.702125	3.692567	3.703103	3.713315	3.696491
##	[1099]	3.702741	3.720310	3.740073	3.715358	3.720815	3.710824
##	[1105]	3.714823	3.680930	3.647249	3.603436	3.580876	3.578924
##	[1111]	3.578409	3.607988	3.586512	3.580339	3.559746	3.535113
##	[1117]	3.514587	3.498665	3.473032	3.497900	3.526562	3.509512
##	[1123]	3.534570	3.522213	3.491851	3.457494	3.460421	3.490313
##	[1129]	3.507114	3.503128	3.483689	3.476724	3.471689	3.442368
##	[1135]	3.440237	3.433665	3.431373	3.402982	3.389892	3.377993
##	[1141]	3.363779	3.357302	3.340955	3.341801	3.308941	3.286195
##	[1147]	3.282110	3.292912	3.286675	3.302296	3.320927	3.328048
##	[1153]	3.312914	3.313085	3.314009	3.303980	3.290344	3.289475
##	[1159]	3.317001	3.315320	3.318090	3.327855	3.335691	3.343457
##	[1165]	3.345151	3.357813	3.358561	3.362383	3.390597	3.397181
##	[1171]	3.411909	3.458066	3.478692	3.511253	3.495504	3.500305
##	[1177]	3.511856	3.513095	3.528605	3.537328	3.577790	3.606604
##	[1183]	3.647861	3.662980	3.684642	3.635478	3.594261	3.564167
##	[1189]	3.560829	3.538876	3.584305	3.626044	3.633717	3.649547
##	[1195]	3.649721	3.638820	3.693744	3.699000	3.687056	3.682049
##	[1201]	3.686053	3.670798	3.671998	3.674431	3.664444	3.644224
##	[1207]	3.651516	3.676898	3.657442	3.625413	3.633121	3.626908
##	[1213]	3.629369	3.630843	3.636310	3.638823	3.629513	3.594981
##	[1219]	3.585811	3.557544	3.533903	3.561774	3.529994	3.526443
##	[1225]	3.547643	3.551376	3.565279	3.561252	3.560672	3.543769
##	[1231]	3.502125	3.486682	3.511681	3.475436	3.459198	3.435309
##	[1237]	3.383626	3.389315	3.370168	3.354668	3.394896	3.418827
##	[1243]	3.433387	3.444337	3.445573	3.439001	3.428130	3.441533
##	[1249]	3.451389	3.458235	3.469118	3.459191	3.468120	3.484956
##	[1255]	3.507431	3.511870	3.507938	3.495120	3.499901	3.507259
##	[1261]	3.515160	3.535215	3.609060	3.703071	3.743556	3.743477
##	[1267]	3.775567	3.806208	3.900207	4.087398	4.447965	4.639161
##	[1273]	4.648368	4.855867	5.081029	5.239563	5.277552	5.218338
##	[1279]	5.393960	5.522222	5.527762	5.712150	5.924958	6.230440
##	[1285]	6.522140	6.560266	7.165997	7.542548	7.722703	7.989647
##	[1291]	8.596508	9.259894	9.569069	9.716384	10.029193	10.940784
##	[1297]	11.478118	11.529835	12.311747	13.415963	14.101425	14.081339
##	[1303]	14.397486	14.860394	15.424086	16.268728	17.564365	19.116629
##	[1309]	20.270201	20.499752	21.113600	22.111565	23.143978	23.423050
##	[1315]	24.468890	24.909239	25.865000	27.552233	28.994782	29.944553
##	[1321]	30.649375	31.216477	31.461275	31.892405	33.051091	34.668499
##	[1327]	36.270926	37.754117	38.968636	40.104977	40.929272	40.926974

##	[1333]	41.089529	42.174383	45.049738	48.193083	51.292245	53.772476
##	[1339]	54.686135	54.799158	55.303682	56.060945	57.760406	59.347472
##	[1345]	60.003878	60.495975	61.893217	63.441169	64.045534	64.545659
##	[1351]	65.387218	65.783000	66.140607	66.454158	66.876939	67.600393
##	[1357]	67.911582	68.308299	69.706872	71.497572	72.920514	74.037793
##	[1363]	74.498653	74.526269	74.874310	74.921312	75.167654	75.673078
##	[1369]	76.800872	77.390751	78.125218	79.570116	81.501618	83.194777
##	[1375]	83.904142	84.035757	84.328258	84.500441	84.502986	84.578055
##	[1381]	85.333453	86.065609	86.141445	86.285963	86.972752	87.651261
##	[1387]	87.743676	88.285979	89.044501	89.582830	90.225084	90.858723
##	[1393]	91.831360	92.635934	92.944767	93.089700	93.629714	94.472404
##	[1399]	95.749454	97.489593	99.228604	100.401242	101.094414	101.421655
##	[1405]	101.482432	101.548510	101.780610	101.888529	103.378131	105.011404
##	[1411]	105.212958	107.318510	110.250688	113.062699	115.078836	115.797166
##	[1417]	116.102195	116.727260	117.032522	117.192136	118.168503	120.180957
##	[1423]	121.736420	122.604283	123.019202	123.026799	123.855504	124.737860
##	[1429]	125.262477	125.503956	125.833169	126.624975	127.514589	128.121395
##	[1435]	128.363513	128.915083	129.212048	129.300080	129.637394	130.145748
##	[1441]	130.467901	130.753777	130.965674	131.041442	131.302795	131.873457
##	[1447]	132.764280	133.741585	134.795209	135.839461	136.632678	137.176208
##	[1453]	137.611288	138.063241	138.544310	138.542046	139.106082	140.075076
##	[1459]	141.097332	142.069749	142.828227	143.170323	143.503809	144.005480
##	[1465]	144.695046	145.401750	145.994576	146.206595	146.175607	146.216897
##	[1471]	146.249013	146.214828	146.316604	146.573578	146.625276	146.656596
##	[1477]	146.752751	146.911459	147.163532	147.252722	147.333746	147.403383
##	[1483]	147.308319	147.133933	146.826577	146.476262	146.438098	145.855361
##	[1489]	145.518656	145.372449	145.229213	144.768144	144.260626	144.042302
##	[1495]	144.082735	143.927459	143.003166	142.508854	142.715872	142.330222
##	[1501]	141.712409	141.550329	142.005181	142.036369	141.773142	141.279928
##	[1507]	140.427031	139.340780	138.204704	137.473963	137.576780	137.278368
##	[1513]	136.582097	135.778838	135.638432	134.707413	134.331775	133.365328
##	[1519]	131.684230	130.302678	129.483781	128.919052	128.658780	128.676307
##	[1525]	128.367909	127.209213	125.643804	124.141752	122.763762	121.621339
##	[1531]	120.613229	119.948065	120.067650	119.933559	118.897005	116.052872
##	[1537]	112.920871	109.820809	107.337040	106.395919	106.290740	105.773982
##	[1543]	105.053973	103.364742	101.783830	101.137441	100.659572	99.305769
##	[1549]	97.765371	97.155903	96.679306	95.835482	95.440508	95.082686
##	[1555]	94.808308	94.374752	93.662364	93.382276	93.014411	91.627901
##	[1561]	89.819459	88.369356	87.267195	86.825206	86.815000	86.500055
##	[1567]	86.516551	86.309364	85.834898	84.710277	84.110806	83.422957
##	[1573]	81.970065	80.006082	78.265389	77.516976	77.407059	77.136730
##	[1579]	76.969792	76.986394	76.909746	76.141391	75.386004	75.286833
##	[1585]	75.111057	74.409875	73.706723	73.614736	73.065691	72.309119
##	[1591]	71.777375	71.162978	70.479195	69.471096	68.669909	68.364074
##	[1597]	68.234529	67.678940	66.776415	65.486456	63.761734	62.036137
##	[1603]	60.875328	60.215674	59.894007	59.846226	59.789848	59.557470
##	[1609]	59.455160	57.958654	56.352440	56.155269	54.052778	51.125116
##	[1615]	48.311525	46.312167	45.593397	45.276674	44.658278	44.364102
##	[1621]	44.205914	43.253918	41.260061	39.705886	38.855820	38.427439
##	[1627]	38.427973	37.612559	36.739447	36.241074	36.004499	35.672657
##	[1633]	34.886444	34.011176	33.382024	33.147269	32.594704	32.313904
##	[1639]	32.255715	31.936581	31.433126	31.100490	30.788290	30.551811
##	[1645]	30.454502	30.191661	29.629082	28.739310	27.770066	26.703023
##	[1651]	25.646671	24.842430	24.286743	23.834014	23.383795	22.888809

##	[1657]	22.865457	22.311032	21.355274	20.331759	19.349981	18.585076
##	[1663]	18.239555	17.895262	17.325388	16.566898	15.819366	15.217980
##	[1669]	14.980524	14.960864	14.825821	14.587255	14.245585	13.941103
##	[1675]	13.660996	13.398761	13.126399	12.860028	12.628889	12.381608
##	[1681]	12.068457	11.847712	11.726226	11.649725	11.609089	11.608209
##	[1687]	11.616849	11.575155	11.531816	11.453703	11.430226	11.317074
##	[1693]	11.166594	11.014957	10.904578	10.719789	10.560139	10.551799
##	[1699]	10.465724	10.208836	9.856595	9.405581	8.874712	8.425608
##	[1705]	8.080287	7.895077	7.821100	7.808261	7.591502	7.184568
##	[1711]	6.764881	6.428168	6.144705	5.867825	5.640178	5.532554
##	[1717]	5.447919	5.390132	5.413737	5.409460	5.340915	5.204914
##	[1723]	5.035062	4.701619	4.435504	4.287970	4.284460	4.236907
##	[1729]	4.137480	4.015621	3.939589	3.803763	3.634030	3.516761
##	[1735]	3.498033	3.484452	3.480261	3.484139	3.503578	3.549552
##	[1741]	3.558281	3.559665	3.571891	3.553309	3.556295	3.566463
##	[1747]	3.598979	3.594538	3.551149	3.560242	3.590659	3.583085
##	[1753]	3.593328	3.567717	3.553312	3.563258	3.584792	3.622529
##	[1759]	3.627219	3.595174	3.585504	3.570520	3.568143	3.561151
##	[1765]	3.529028	3.504025	3.453474	3.390945	3.354009	3.315629
##	[1771]	3.294433	3.273742	3.252011	3.246453	3.236476	3.260014
##	[1777]	3.268331	3.241239	3.210553	3.189048	3.170729	3.176790
##	[1783]	3.170080	3.154932	3.140548	3.139374	3.154536	3.176766
##	[1789]	3.176807	3.188992	3.205571	3.213901	3.202061	3.209364
##	[1795]	3.213012	3.214876	3.208172	3.203791	3.205629	3.233269
##	[1801]	3.253309	3.258738	3.317981	3.350977	3.313957	3.316217
##	[1807]	3.313963	3.374226	3.442689	3.480414	3.519365	3.522936
##	[1813]	3.512091	3.537355	3.604971	3.661330	3.707260	3.735032
##	[1819]	3.778168	3.777974	3.800638	3.824590	3.857481	3.904991
##	[1825]	3.875451	3.913910	3.951007	3.920666	3.927651	3.931243
##	[1831]	3.922714	3.963128	3.995886	4.016431	4.007774	4.002703
##	[1837]	3.993381	4.008338	4.001077	3.977280	3.955678	3.952846
##	[1843]	3.950854	3.940572	3.991884	4.058873	4.040610	4.061240
##	[1849]	4.063118	4.059574	4.052650	4.054402	4.060940	4.059939
##	[1855]	4.079555	4.074727	4.114079	4.125070	4.118603	4.106756
##	[1861]	4.111952	4.120545	4.144408	4.139919	4.126827	4.120480
##	[1867]	4.109038	4.093925	4.115878	4.119684	4.119580	4.119415
##	[1873]	4.138004	4.158359	4.181357	4.213698	4.230479	4.253445
##	[1879]	4.240533	4.234548	4.226892	4.242205	4.257908	4.262044
##	[1885]	4.262561	4.283271	4.285367	4.276153	4.272001	4.253413
##	[1891]	4.241700	4.235143	4.217690	4.210791	4.225462	4.220341
##	[1897]	4.230250	4.238643	4.255752	4.250994	4.236432	4.184861
##	[1903]	4.151021	4.136744	4.116481	4.114421	4.128466	4.144106
##	[1909]	4.142592	4.166607	4.174596	4.168784	4.182365	4.173286
##	[1915]	4.142170	4.125543	4.111755	4.091872	4.107115	4.100909
##	[1921]	4.091621	4.097723	4.098063	4.115791	4.107165	4.106973
##	[1927]	4.107488	4.108427	4.103332	4.103283	4.090728	4.058833
##	[1933]	4.063705	4.066454	4.081829	4.099938	4.100684	4.092035
##	[1939]	4.067710	4.090923	4.097265	4.090246	4.116401	4.103285
##	[1945]	4.104742	4.101259	4.080945	4.047963	4.076011	4.103335
##	[1951]	4.121441	4.101611	4.070965	4.053820	4.056509	4.061408
##	[1957]	4.033143	4.012259	4.088539	4.244675	4.422972	4.430229
##	[1963]	4.719274	5.090599	5.439778	5.640740	5.658078	5.876675
##	[1969]	6.071669	6.123376	6.284472	6.393017	6.839685	7.305205
##	[1975]	7.340991	7.677601	8.060048	8.053258	9.044596	10.344383

##	[1981]	11.136058	11.227589	12.155585	13.407818	14.506994	15.150347
##	[1987]	15.537888	15.817386	15.930288	15.962803	15.946318	16.099958
##	[1993]	16.205680	16.255098	16.430491	16.658225	16.934842	17.463732
##	[1999]	18.075383	18.297578	18.780852	20.094364	21.800035	22.282684
##	[2005]	23.367635	25.397998	27.187032	27.823975	27.868912	27.941634
##	[2011]	28.520786	29.429998	30.326727	31.042109	31.240177	31.230654
##	[2017]	31.816946	32.602599	33.368587	34.150824	34.465891	34.814334
##	[2023]	35.620758	36.647071	37.254440	38.789061	41.663561	43.101959
##	[2029]	44.626668	48.007387	50.960959	52.404291	52.556924	54.032199
##	[2035]	56.887010	59.579118	61.047522	61.529146	62.150786	62.829436
##	[2041]	63.731283	64.742394	66.379606	68.256372	68.339129	69.638589
##	[2047]	71.303670	73.406266	75.726472	77.671432	79.077563	80.057548
##	[2053]	80.402353	80.723749	81.640560	82.805626	83.928096	84.698305
##	[2059]	85.293026	86.337121	87.500712	87.940762	88.315941	89.176105
##	[2065]	90.139733	90.971332	91.549893	92.019772	92.627840	93.131682
##	[2071]	93.515775	93.825763	94.025954	94.025390	94.122048	94.256658
##	[2077]	94.434971	94.824960	96.116529	97.353709	97.407234	97.824581
##	[2083]	98.038634	98.029603	98.286481	99.039459	100.291315	101.248640
##	[2089]	101.525536	102.151790	103.404425	104.707050	106.019426	107.228536
##	[2095]	108.077199	108.853126	109.649464	109.720448	110.537162	111.730614
##	[2101]	112.788924	113.539152	113.757186	113.917778	113.942337	114.628433
##	[2107]	115.309350	115.401297	115.629298	115.802774	116.331150	117.095699
##	[2113]	117.961702	118.474415	118.772431	119.118672	119.245848	119.299198
##	[2119]	119.299764	119.445990	119.940626	120.997494	122.312546	123.651571
##	[2125]	125.122958	126.249659	126.883919	126.974963	127.280826	127.609448
##	[2131]	127.850589	127.897469	127.932341	128.051548	128.289226	128.471081
##	[2137]	128.539718	128.545183	128.522401	128.636998	128.810633	128.766698
##	[2143]	128.891562	128.944176	129.008730	129.299222	129.572423	129.703504
##	[2149]	130.092434	130.609635	131.098980	131.671285	132.233186	132.729600
##	[2155]	132.920345	132.935854	133.090079	133.074289	133.262079	133.546987
##	[2161]	133.483199	133.335952	133.409714	133.142830	132.791646	132.554447
##	[2167]	132.662278	133.067421	133.361417	133.679347	134.322660	135.098998
##	[2173]	135.950099	136.183787	136.197747	136.178271	136.266448	136.604536
##	[2179]	137.251725	136.470995	135.384651	134.973911	135.470129	135.024433
##	[2185]	134.086842	133.035125	132.562946	132.385147	132.318238	132.458364
##	[2191]	132.698669	132.972423	133.079111	133.285214	133.524993	133.633358
##	[2197]	133.652896	133.557547	133.096236	132.480628	132.340377	131.963826
##	[2203]	130.785747	129.220151	128.815802	127.833331	125.976297	124.347183
##	[2209]	123.853402	123.871755	123.858367	123.301313	122.452687	121.642005
##	[2215]	121.017421	120.870571	120.939494	120.395968	119.622260	118.918706
##	[2221]	118.148910	117.847134	117.494809	116.686057	115.631683	114.967873
##	[2227]	113.460151	110.557170	109.108593	107.592241	104.209373	101.250046
##	[2233]	99.795464	99.612588	98.101481	95.237123	92.580472	91.142147
##	[2239]	90.733604	90.146619	89.557654	88.703513	87.776676	86.181939
##	[2245]	84.338168	84.312307	82.998274	81.281663	79.249986	76.967083
##	[2251]	75.098948	73.728452	72.772593	72.484031	72.218024	71.339474
##	[2257]	70.213796	69.129855	68.330997	67.744043	66.708735	65.540030
##	[2263]	65.103044	64.705952	63.835670	62.879344	62.045742	61.475572
##	[2269]	61.014573	60.425257	59.897102	59.500445	59.207990	59.035925
##	[2275]	59.071219	58.990171	58.865290	58.657671	58.270952	56.951557
##	[2281]	55.751345	55.702068	55.299967	55.105183	55.129800	54.891309
##	[2287]	54.152230	52.876411	51.926854	51.669096	51.050432	49.798981
##	[2293]	48.503315	47.210617	46.034559	45.204839	44.440950	43.651073
##	[2299]	43.585353	42.798933	41.584943	40.524825	39.785485	39.555105



##	[2305]	39.394049	39.376336	38.687593	38.022792	37.898193	37.675753
##	[2311]	37.506953	36.969983	36.222384	35.375541	34.863167	34.551237
##	[2317]	34.211035	34.083175	34.019663	34.019399	33.881445	33.387853
##	[2323]	32.348186	31.031649	29.696980	28.237860	27.116045	26.485220
##	[2329]	26.392950	26.085154	25.758315	25.534294	25.490403	25.455239
##	[2335]	25.320197	25.099769	24.907022	24.814484	24.796129	24.806253
##	[2341]	24.690644	24.490999	24.480915	24.366619	24.294236	24.234448
##	[2347]	23.934154	23.648829	23.519410	23.124992	22.572721	22.061238
##	[2353]	21.453596	20.882128	20.389842	20.185175	20.166296	20.015750
##	[2359]	20.022058	19.828944	19.434567	19.326572	19.291414	19.217338
##	[2365]	19.199872	19.194504	19.087450	18.795181	18.380420	17.869336
##	[2371]	17.370088	16.691649	15.798978	14.908855	14.284479	13.807377
##	[2377]	13.796902	13.353770	12.628575	11.997199	11.807342	11.620172
##	[2383]	11.266529	10.701673	10.205805	9.885184	9.862603	9.695838
##	[2389]	9.516239	9.302705	9.027589	8.767906	8.486941	8.223230
##	[2395]	7.875994	7.610870	7.330852	7.067655	6.868485	6.797813
##	[2401]	6.779788	6.717514	6.600484	6.458066	6.311684	6.166136
##	[2407]	6.039570	5.867018	5.696222	5.529078	5.401987	5.270870
##	[2413]	5.215871	5.116566	5.032433	4.991143	4.912614	4.797922
##	[2419]	4.704003	4.642643	4.577488	4.528938	4.507877	4.491469
##	[2425]	4.497021	4.471950	4.481513	4.486683	4.469728	4.441985
##	[2431]	4.436609	4.426377	4.402493	4.428125	4.418724	4.418218
##	[2437]	4.414475	4.383987	4.358182	4.278289	4.227253	4.140847
##	[2443]	4.087430	4.002416	3.941931	3.922021	3.894282	3.877549
##	[2449]	3.877146	3.831415	3.768662	3.707171	3.689037	3.684959
##	[2455]	3.636036	3.578207	3.545564	3.498266	3.445637	3.447599
##	[2461]	3.436205	3.419420	3.421898	3.420841	3.426870	3.421061
##	[2467]	3.459228	3.473921	3.474528	3.468027	3.463959	3.465496
##	[2473]	3.465552	3.437778	3.420072	3.409805	3.378650	3.357820
##	[2479]	3.354018	3.333991	3.346854	3.310520	3.306558	3.303868
##	[2485]	3.282154	3.260728	3.252692	3.237213	3.271056	3.250903
##	[2491]	3.232878	3.227202	3.229913	3.232376	3.199737	3.179881
##	[2497]	3.189780	3.172072	3.203552	3.210866	3.190954	3.185996
##	[2503]	3.215265	3.214948	3.267902	3.258564	3.263428	3.287148
##	[2509]	3.274326	3.278903	3.296594	3.336703	3.336009	3.338778
##	[2515]	3.343879	3.346003	3.336823	3.371164	3.393801	3.396743
##	[2521]	3.391542	3.369629	3.403757	3.411003	3.428143	3.454086
##	[2527]	3.432794	3.441693	3.471250	3.498297	3.500832	3.514953
##	[2533]	3.510113	3.518194	3.525660	3.549466	3.540674	3.550677
##	[2539]	3.552888	3.541704	3.535080	3.553818	3.531454	3.531680
##	[2545]	3.525863	3.516868	3.524114	3.523090	3.534931	3.556707
##	[2551]	3.559322	3.565650	3.552544	3.590281	3.584410	3.597697
##	[2557]	3.597807	3.603305	3.605506	3.602966	3.635274	3.631299
##	[2563]	3.638597	3.645260	3.624814	3.625192	3.635154	3.630381
##	[2569]	3.617248	3.615786	3.636530	3.654715	3.647666	3.604037
##	[2575]	3.533793	3.484645	3.456607	3.446109	3.462722	3.460342
##	[2581]	3.472853	3.461140	3.454583	3.425324	3.397962	3.399437
##	[2587]	3.414238	3.414327	3.408543	3.376693	3.373632	3.396856
##	[2593]	3.408825	3.412496	3.414698	3.418547	3.385827	3.374121
##	[2599]	3.377991	3.370498	3.358533	3.360390	3.356103	3.360217
##	[2605]	3.358741	3.337869	3.335926	3.333579	3.343072	3.347073
##	[2611]	3.394608	3.395603	3.410109	3.422200	3.425251	3.399400
##	[2617]	3.350803	3.337679	3.337566	3.335749	3.349335	3.330017
##	[2623]	3.343049	3.363106	3.392335	3.401611	3.399725	3.377828

##	[2629]	3.372516	3.363327	3.357896	3.376696	3.365942	3.376379
##	[2635]	3.364296	3.358616	3.384513	3.392830	3.434264	3.525597
##	[2641]	3.653669	3.901646	4.081130	4.078716	4.257350	4.573990
##	[2647]	4.877810	5.060630	5.109304	5.091642	5.085955	5.113148
##	[2653]	5.309410	5.605850	5.797678	5.798008	6.101843	6.402938
##	[2659]	6.471865	6.931067	7.269452	7.300699	7.377396	7.680239
##	[2665]	7.938453	7.973601	8.057980	8.168300	8.501810	8.719047
##	[2671]	9.160537	9.414679	9.643601	10.065926	10.476473	10.895596
##	[2677]	11.042822	11.255266	11.474521	11.806596	12.122328	12.500700
##	[2683]	12.882586	13.078877	13.229265	14.051325	15.635643	17.280925
##	[2689]	18.307206	18.650972	18.692015	18.844531	19.245483	19.554641
##	[2695]	19.546953	20.416332	22.209916	23.555181	23.706694	23.900443
##	[2701]	24.311889	24.854438	25.426203	25.713043	25.930573	26.110219
##	[2707]	26.556045	27.194024	27.991817	28.222585	28.307432	28.457936
##	[2713]	29.177854	29.924169	30.831987	32.366293	33.958923	34.822840
##	[2719]	35.064069	35.324404	35.883723	36.291952	36.727248	37.883809
##	[2725]	39.968155	42.053206	42.540208	43.375951	44.717191	45.693615
##	[2731]	46.113017	46.335766	46.883250	48.018640	48.795653	48.815750
##	[2737]	49.383819	50.015106	50.037373	50.948022	51.705989	51.734860
##	[2743]	52.022901	52.492005	53.428241	54.676800	55.650613	56.068586
##	[2749]	56.157946	56.301205	56.535801	56.768212	57.101910	57.498253
##	[2755]	58.173899	59.141467	60.137174	60.933058	62.188199	63.978836
##	[2761]	64.677350	65.880758	68.484141	71.280872	73.290105	73.908906
##	[2767]	74.069620	74.050912	75.288737	77.103513	77.731439	78.487609
##	[2773]	80.096639	81.399958	82.271457	82.734163	82.870674	83.260276
##	[2779]	84.332214	85.348037	85.734166	86.491610	87.516496	87.739323
##	[2785]	88.455243	89.905102	90.840261	91.158671	91.243646	92.107759
##	[2791]	93.715101	95.743700	97.543076	98.367339	98.538173	99.274801
##	[2797]	100.003452	100.395437	100.428450	100.734035	100.968782	101.121148
##	[2803]	101.560441	101.969059	102.257106	102.457887	102.817298	103.398305
##	[2809]	103.766085	104.128432	104.469488	104.719186	104.943515	104.997414
##	[2815]	105.041790	105.406734	106.004993	106.349963	106.493969	106.747291
##	[2821]	107.438005	108.197540	108.754794	108.997768	108.989068	109.015380
##	[2827]	109.427186	109.715616	110.159136	110.900783	111.805277	112.263123
##	[2833]	112.607489	113.781487	114.847726	115.673185	115.934840	115.921900
##	[2839]	115.918941	115.900738	115.879373	115.910486	115.966577	116.104773
##	[2845]	116.499376	116.968283	117.843797	118.734595	119.317718	119.862987
##	[2851]	120.258434	120.423402	120.663860	121.022802	121.588273	122.519770
##	[2857]	123.586523	124.066549	124.149852	124.188217	123.927470	124.111429
##	[2863]	124.787092	125.754689	126.351412	126.535825	126.519674	126.940693
##	[2869]	127.652587	128.152003	128.494821	128.186854	128.083195	128.172893
##	[2875]	128.075013	127.942979	127.764736	127.728381	127.586336	127.405365
##	[2881]	127.107676	126.841915	126.697571	126.572869	126.594591	126.552613
##	[2887]	125.728739	124.172173	122.575743	121.652459	121.456578	121.708185
##	[2893]	121.868580	121.822135	121.833971	122.060517	121.310086	119.565880
##	[2899]	118.201095	118.108323	117.977333	117.624676	117.165800	116.732353
##	[2905]	116.533784	116.414779	116.298402	115.961341	115.410686	114.712315
##	[2911]	114.600953	114.667162	114.597595	113.912825	113.240962	112.362711
##	[2917]	110.889257	109.358867	108.579037	108.371579	108.136715	107.632057
##	[2923]	107.287718	106.957885	105.801457	103.735239	101.658750	101.147660
##	[2929]	100.326638	98.990906	97.998691	97.566337	97.373637	96.815567
##	[2935]	95.689397	94.923321	94.916455	94.344859	93.759412	93.755220
##	[2941]	92.894244	92.156108	92.149448	91.878931	91.446033	90.547138
##	[2947]	89.306213	88.378991	87.958624	87.891413	87.770015	87.536703

##	[2953]	87.303385	87.025454	86.675156	86.004088	85.055980	84.075070
##	[2959]	83.283657	82.047086	80.248845	79.541749	78.317733	75.742720
##	[2965]	72.936970	70.926507	70.342291	70.194353	70.187043	68.954492
##	[2971]	67.135440	66.516644	65.742048	64.140801	62.843866	61.999810
##	[2977]	61.541226	61.404547	61.039301	59.975282	58.981301	58.608910
##	[2983]	57.835296	56.859265	56.679590	55.971297	54.557120	53.614256
##	[2989]	53.297298	53.188092	52.332182	50.729120	48.690878	46.887331
##	[2995]	46.050168	45.889771	45.145461	44.418589	44.025247	44.003896
##	[3001]	43.718149	43.480413	43.330019	42.887858	42.456233	42.202475
##	[3007]	41.993997	41.637756	41.061500	40.674302	40.296646	39.960485
##	[3013]	39.672800	39.462574	39.408909	39.336586	38.957638	38.360272
##	[3019]	38.033617	37.895731	37.630318	36.937067	36.152688	35.599620
##	[3025]	35.343962	35.329421	35.267798	34.830550	34.558794	34.118761
##	[3031]	33.357722	32.483828	32.033966	31.672250	30.509096	29.453173
##	[3037]	28.610419	28.361076	28.373336	28.365599	28.357006	28.305337
##	[3043]	28.158543	27.855279	27.534481	27.146753	26.522566	25.351375
##	[3049]	24.142907	23.380065	22.772791	22.381123	22.208041	21.948917
##	[3055]	21.388297	20.508224	19.367648	18.316490	17.525184	17.144064
##	[3061]	17.032369	16.829750	16.298310	15.601051	14.579458	13.674182
##	[3067]	13.239825	13.213154	12.703186	11.846373	11.001307	10.451069
##	[3073]	10.312612	10.146103	9.820532	9.491893	9.215940	8.960245
##	[3079]	8.804506	8.733118	8.692841	8.664128	8.641268	8.391608
##	[3085]	8.146919	7.934564	7.842684	7.868599	7.831548	7.767226
##	[3091]	7.666379	7.490698	7.200664	6.885960	6.530518	6.214919
##	[3097]	5.978377	5.881538	5.829398	5.824858	5.776473	5.703046
##	[3103]	5.622234	5.517312	5.381495	5.270484	5.169455	5.071636
##	[3109]	4.967510	4.871853	4.752329	4.632987	4.484562	4.407560
##	[3115]	4.328820	4.231834	4.179825	4.129366	4.098005	4.012417
##	[3121]	3.942646	3.891418	3.836303	3.769143	3.655864	3.611278
##	[3127]	3.581827	3.566874	3.566609	3.542316	3.538358	3.527029
##	[3133]	3.528838	3.506448	3.504312	3.494806	3.504821	3.475953
##	[3139]	3.477810	3.423410	3.402613	3.354407	3.326836	3.309948
##	[3145]	3.278956	3.276242	3.240160	3.236343	3.190650	3.207273
##	[3151]	3.173545	3.178230	3.161871	3.190233	3.127687	3.080983
##	[3157]	3.039433	3.020884	2.989071	2.972957	2.947503	2.956355
##	[3163]	2.976554	2.985749	2.944228	2.949284	2.984272	2.976507
##	[3169]	3.001846	3.016874	2.998221	3.017290	3.023534	3.044193
##	[3175]	3.019777	3.039309	2.999792	2.993263	2.984625	2.972023
##	[3181]	2.959992	2.920817	2.907078	2.902107	2.850798	2.817605
##	[3187]	2.825127	2.792529	2.795524	2.783702	2.785054	2.777787
##	[3193]	2.777852	2.785599	2.765789	2.756037	2.753385	2.760663
##	[3199]	2.772852	2.797197	2.786021	2.772198	2.785714	2.792570
##	[3205]	2.798497	2.802207	2.748041	2.766259	2.771941	2.769656
##	[3211]	2.774804	2.784711	2.762092	2.763486	2.747320	2.740995
##	[3217]	2.777349	2.775787	2.780408	2.764335	2.746058	2.742839
##	[3223]	2.736838	2.732381	2.720027	2.736105	2.735262	2.752115
##	[3229]	2.739125	2.739845	2.740037	2.735511	2.745201	2.766603
##	[3235]	2.788155	2.792515	2.785701	2.788221	2.776859	2.772917
##	[3241]	2.770449	2.753150	2.749349	2.754409	2.777474	2.778908
##	[3247]	2.790027	2.764793	2.759386	2.771451	2.747864	2.757333
##	[3253]	2.753934	2.744979	2.731885	2.719221	2.715595	2.711693
##	[3259]	2.689713	2.692387	2.696338	2.706259	2.723413	2.721444
##	[3265]	2.707221	2.678061	2.678415	2.693168	2.697607	2.696483
##	[3271]	2.681030	2.679343	2.670691	2.661223	2.700293	2.735240

##	[3277]	2.744827	2.747376	2.766015	2.787409	2.827293	2.857873
##	[3283]	2.875507	2.845731	2.850419	2.838235	2.849701	2.852063
##	[3289]	2.861195	2.879313	2.919898	2.941863	2.970877	2.974092
##	[3295]	2.994171	3.066594	3.095631	3.100901	3.095541	3.097075
##	[3301]	3.094430	3.088926	3.067572	3.078364	3.096064	3.122081
##	[3307]	3.145189	3.139637	3.121036	3.115075	3.110095	3.120948
##	[3313]	3.137806	3.180364	3.149778	3.172074	3.195945	3.176159
##	[3319]	3.161289	3.128115	3.131454	3.168066	3.229280	3.360288
##	[3325]	3.612336	3.826826	3.909451	3.974680	4.099717	4.367362
##	[3331]	4.783545	5.242834	5.571002	5.653254	5.813292	6.223885
##	[3337]	6.780500	7.367131	7.792937	7.946583	7.983603	8.021929
##	[3343]	8.214805	8.310876	8.995442	9.812097	9.950195	10.410836
##	[3349]	11.327323	11.999145	12.281816	12.562037	13.039188	13.801408
##	[3355]	14.538274	15.156940	15.524479	15.802721	16.086246	16.104076
##	[3361]	16.561365	17.366167	18.080119	18.539744	18.887947	19.320717
##	[3367]	19.763394	20.354419	21.062907	21.855403	23.131616	25.021310
##	[3373]	26.358960	26.347298	27.725370	29.466750	31.025681	32.344259
##	[3379]	33.487549	34.690093	35.314501	35.684292	36.036108	36.164081
##	[3385]	36.334908	37.195613	38.230521	38.860461	39.103440	39.256859
##	[3391]	39.336622	39.667833	40.079668	40.207972	40.688538	41.101355
##	[3397]	41.619261	42.574452	43.482755	45.073551	45.734746	46.019561
##	[3403]	46.729229	47.560157	48.501507	49.234316	49.363918	49.742079
##	[3409]	50.210741	50.488652	50.603676	50.958109	51.263155	51.511008
##	[3415]	52.592892	54.393261	55.780564	56.626371	57.055346	57.517199
##	[3421]	58.294109	58.297552	59.662761	61.633319	63.525384	65.218986
##	[3427]	66.855234	68.383698	69.029422	69.659075	70.856544	72.018398
##	[3433]	72.797989	73.192758	73.359825	73.721157	74.453455	76.009552
##	[3439]	76.951863	77.239965	77.927878	78.330086	78.391061	78.429053
##	[3445]	78.657051	78.935347	79.346248	79.512554	80.305893	81.991997
##	[3451]	83.131254	83.617316	83.922160	84.345073	84.792101	84.863540
##	[3457]	85.222496	85.613514	86.573305	87.990631	88.895604	89.190525
##	[3463]	89.622236	90.135492	90.309355	91.450927	92.767104	93.701318
##	[3469]	93.853878	93.888942	94.074960	94.369536	94.386292	94.821643
##	[3475]	95.333591	95.367296	96.308912	97.696307	98.794906	100.440726
##	[3481]	101.073260	101.692164	102.734232	103.842315	104.858280	105.394436
##	[3487]	105.550552	105.647795	106.288238	106.812183	107.146639	107.193376
##	[3493]	107.552433	108.013726	108.325845	108.325474	108.418190	108.518635
##	[3499]	108.810519	109.479186	110.121639	110.368705	110.429900	110.839389
##	[3505]	111.315184	112.038839	112.796150	113.403395	113.853766	114.319331
##	[3511]	114.907332	115.251254	115.707662	116.954221	118.317209	119.271532
##	[3517]	119.614458	119.754733	120.095838	120.429530	120.740688	121.053758
##	[3523]	121.367166	121.569231	121.514232	121.281709	121.263326	121.902590
##	[3529]	122.916296	123.661843	123.682623	123.532123	124.196048	124.762489
##	[3535]	124.750664	125.545036	126.194738	126.252490	125.795847	125.990493
##	[3541]	126.503114	127.231627	128.087322	128.991991	130.125278	130.555421
##	[3547]	130.485456	130.706794	130.415711	129.656445	129.478509	129.862658
##	[3553]	130.337603	130.562128	130.457390	130.247805	130.043556	130.042458
##	[3559]	130.111559	130.121595	130.380264	130.247750	129.746359	129.265830
##	[3565]	128.986170	128.734626	128.396237	127.956040	127.343912	126.647143
##	[3571]	125.837390	124.660831	122.865981	121.645472	121.803238	120.549254
##	[3577]	118.884679	117.389602	116.226732	115.300000	114.314167	113.839397
##	[3583]	113.588111	113.322154	113.287252	113.189745	112.417675	111.460004
##	[3589]	110.875721	110.694336	110.617929	110.611977	110.324024	109.935251
##	[3595]	109.848640	109.392108	109.032280	108.622079	107.717522	106.839773

##	[3601]	105.260197	104.571882	104.315478	103.642292	102.841335	101.939251
##	[3607]	101.235727	101.142101	100.820176	100.365559	100.112253	100.037937
##	[3613]	99.706396	99.443024	99.275774	98.238791	96.477394	95.124261
##	[3619]	94.295751	93.910640	93.460461	92.726425	92.753891	91.425914
##	[3625]	89.462516	87.571630	85.874140	84.234824	82.718428	82.087440
##	[3631]	81.485861	80.316683	79.149625	78.408602	77.975241	77.798016
##	[3637]	77.411083	76.669701	75.098422	74.158771	73.887173	73.213086
##	[3643]	72.813843	72.802951	72.750729	72.507672	72.217703	71.802717
##	[3649]	71.623437	70.863255	69.176609	68.049269	67.554337	67.245439
##	[3655]	66.834333	66.402859	66.354360	66.024915	65.655309	64.743878
##	[3661]	63.339696	62.441684	62.133635	61.723692	61.197052	61.038475
##	[3667]	59.894711	58.587643	57.662225	57.521952	57.492806	57.307285
##	[3673]	57.021111	57.005676	56.580698	56.075498	56.011467	55.077952
##	[3679]	53.684697	52.596097	50.967970	50.349982	49.703881	48.621294
##	[3685]	47.490270	46.480617	45.946557	45.793069	45.688772	45.019487
##	[3691]	44.461309	44.123240	44.059144	43.689085	43.206919	42.893743
##	[3697]	42.872211	42.721409	42.593632	42.311997	41.635153	41.005889
##	[3703]	40.762778	40.698098	40.309683	39.821695	39.080610	38.320615
##	[3709]	37.694535	37.257129	36.813768	36.231508	35.898265	35.445520
##	[3715]	34.194300	32.785848	31.817450	31.455512	31.292212	30.951481
##	[3721]	30.596952	30.290365	29.977014	29.619834	29.348055	29.269806
##	[3727]	29.245519	29.050276	28.363916	27.289405	26.412112	26.120091
##	[3733]	25.871635	24.739008	23.876957	23.807201	22.879542	21.823002
##	[3739]	21.222713	21.076369	20.490590	19.812005	19.059283	18.152362
##	[3745]	17.052106	15.847786	14.766104	14.022795	13.631021	13.478670
##	[3751]	13.314007	12.812195	12.136208	11.402553	10.659821	9.989687
##	[3757]	9.448280	9.033985	8.662888	8.327853	8.047666	7.785687
##	[3763]	7.472782	7.192527	6.950970	6.756654	6.658770	6.575028
##	[3769]	6.548694	6.551645	6.523943	6.498443	6.384865	6.290020
##	[3775]	6.160076	5.992248	5.850928	5.778185	5.673631	5.557351
##	[3781]	5.340869	5.133540	5.025696	4.903363	4.858425	4.775034
##	[3787]	4.718579	4.661150	4.581601	4.573268	4.513961	4.451234
##	[3793]	4.397389	4.354344	4.368788	4.344230	4.351778	4.340432
##	[3799]	4.232877	4.186348	4.139796	4.112002	4.112174	4.089845
##	[3805]	4.058252	4.014722	3.983662	3.978935	3.949390	3.891525
##	[3811]	3.885396	3.877737	3.876392	3.843625	3.815785	3.735928
##	[3817]	3.683217	3.652831	3.625984	3.576493	3.541011	3.516145
##	[3823]	3.483940	3.463895	3.425325	3.430780	3.449261	3.468115
##	[3829]	3.451567	3.464695	3.447564	3.429300	3.404139	3.409294
##	[3835]	3.372714	3.379904	3.373555	3.386174	3.390892	3.402178
##	[3841]	3.387357	3.396185	3.365894	3.375865	3.324587	3.321369
##	[3847]	3.342203	3.336147	3.346257	3.350304	3.343771	3.340648
##	[3853]	3.319372	3.329835	3.327311	3.363837	3.354440	3.340036
##	[3859]	3.312883	3.306211	3.259458	3.257371	3.284998	3.325606
##	[3865]	3.309449	3.312582	3.310560	3.311425	3.321975	3.338580
##	[3871]	3.321892	3.353205	3.372285	3.363835	3.357404	3.346920
##	[3877]	3.339880	3.352889	3.342192	3.356662	3.363426	3.336236
##	[3883]	3.302940	3.296961	3.289056	3.293027	3.288614	3.299739
##	[3889]	3.313728	3.344378	3.349183	3.355917	3.339596	3.321290
##	[3895]	3.306649	3.290655	3.291413	3.293461	3.333101	3.338647
##	[3901]	3.352835	3.364263	3.347746	3.336038	3.337209	3.320344
##	[3907]	3.317095	3.339837	3.315770	3.309718	3.307514	3.314448
##	[3913]	3.329079	3.392537	3.382452	3.368542	3.373703	3.379451
##	[3919]	3.373164	3.375540	3.384726	3.411731	3.433040	3.440662

##	[3925]	3.490439	3.503091	3.530801	3.556872	3.595259	3.572300
##	[3931]	3.590177	3.607115	3.613001	3.610501	3.617964	3.584214
##	[3937]	3.585342	3.560994	3.564401	3.547867	3.541491	3.510678
##	[3943]	3.520776	3.530271	3.528860	3.524747	3.495012	3.447539
##	[3949]	3.434093	3.436583	3.432551	3.429270	3.445018	3.430757
##	[3955]	3.424582	3.442275	3.443593	3.425418	3.459546	3.469220
##	[3961]	3.462264	3.470740	3.456066	3.452630	3.439362	3.444540
##	[3967]	3.444328	3.426950	3.427444	3.426791	3.411216	3.420495
##	[3973]	3.418059	3.434299	3.453210	3.451409	3.464667	3.460103
##	[3979]	3.450704	3.450890	3.411018	3.442474	3.445291	3.389420
##	[3985]	3.396492	3.357171	3.326081	3.300092	3.275871	3.253555
##	[3991]	3.204649	3.206905	3.200747	3.213043	3.209367	3.189522
##	[3997]	3.164329	3.121860	3.092706	3.091894	3.081272	3.095808
##	[4003]	3.117684	3.128610	3.136370	3.119480	3.123594	3.104859
##	[4009]	3.139216	3.191632	3.252089	3.304600	3.302011	3.274621
##	[4015]	3.304486	3.333859	3.425379	3.495089	3.612480	3.911709
##	[4021]	4.270091	4.426856	4.434552	4.608125	4.938758	5.276804
##	[4027]	5.530357	5.730258	5.794051	5.823136	6.109177	6.627707
##	[4033]	7.190858	7.619752	7.904687	7.993595	8.087195	8.779846
##	[4039]	9.562173	10.188715	10.588367	10.830020	10.957774	11.473463
##	[4045]	12.271354	13.333943	14.248839	14.609856	15.036387	16.016893
##	[4051]	16.960705	17.449698	17.531158	17.647302	17.719139	17.839044
##	[4057]	17.796704	17.900879	17.996250	18.109011	18.316481	19.212776
##	[4063]	19.847513	19.901952	20.537629	21.200653	21.729789	21.795660
##	[4069]	22.442297	23.466830	23.821992	24.162326	24.302319	25.373186
##	[4075]	26.925959	27.830019	27.975318	28.205142	28.637540	29.085889
##	[4081]	29.323748	29.521053	29.863958	30.816406	32.164584	32.713080
##	[4087]	35.016024	37.662920	39.490917	40.254420	40.531612	41.657640
##	[4093]	43.506874	45.612656	47.120647	47.698643	47.851675	48.189541
##	[4099]	48.464648	48.966907	50.299267	51.247627	51.525260	51.709042
##	[4105]	51.863207	52.174670	52.495857	52.944401	53.102346	53.272789
##	[4111]	53.513176	54.069696	54.544037	54.781588	54.831923	55.023695
##	[4117]	55.035823	55.403512	55.581650	56.036089	56.207084	56.486742
##	[4123]	57.095148	57.743016	57.998201	58.337729	58.866691	60.167474
##	[4129]	61.445736	61.667262	62.072895	62.394506	62.845562	63.213122
##	[4135]	63.485372	63.815366	64.537307	65.670685	66.702160	66.814971
##	[4141]	66.992938	67.151647	67.706665	68.595701	68.825463	68.999091
##	[4147]	69.733504	70.794531	71.448641	71.516050	72.413571	73.976517
##	[4153]	75.874768	77.763564	79.380294	81.063750	82.691846	83.147475
##	[4159]	83.645856	84.519417	85.697384	85.931204	85.977518	86.755678
##	[4165]	88.175963	90.007729	91.988673	93.449710	93.860178	94.471319
##	[4171]	95.804021	97.270732	98.339195	98.909661	99.549854	100.340618
##	[4177]	100.978440	101.005544	101.525204	102.173398	102.796039	103.430921
##	[4183]	104.248108	104.866201	105.103101	105.284009	105.528167	105.665131
##	[4189]	105.694685	105.774671	105.835621	106.729522	107.852580	108.690870
##	[4195]	108.854551	109.434123	110.484927	111.372212	111.709020	112.037486
##	[4201]	112.726108	113.478981	114.068848	114.356232	114.438212	114.992496
##	[4207]	116.349798	117.704253	118.837552	119.578336	119.814604	119.801971
##	[4213]	119.939779	120.236664	120.858779	121.689454	122.216352	122.260493
##	[4219]	122.307591	122.210383	122.107418	122.106822	122.208579	122.285732
##	[4225]	122.135042	122.040780	122.082767	122.235164	122.631002	123.263355
##	[4231]	123.662263	123.362965	123.127134	122.957903	122.734578	122.558731
##	[4237]	122.480972	122.650524	122.119079	121.351885	120.886426	120.735313
##	[4243]	120.720212	120.674625	120.185789	119.367581	118.521829	117.878068

##	[4249]	117.565031	117.219368	116.459414	115.751094	115.519326	115.663052
##	[4255]	115.651573	115.610667	115.493000	115.582937	115.653771	115.784444
##	[4261]	115.962306	116.039872	115.393404	114.943163	114.999410	114.417754
##	[4267]	113.801408	113.273879	113.188447	112.567291	111.565430	111.236671
##	[4273]	110.927067	110.796439	109.725274	108.228391	107.401807	107.333056
##	[4279]	107.196047	106.836110	106.426744	106.280963	106.162697	105.893470
##	[4285]	105.016237	103.716201	103.269367	100.993069	98.397523	96.594713
##	[4291]	95.844295	95.561742	94.433688	92.575899	90.498673	89.011247
##	[4297]	88.425094	88.282573	87.958661	87.691735	87.178131	85.843232
##	[4303]	84.908717	84.614485	84.429867	84.279081	83.990423	83.726242
##	[4309]	83.327588	83.177790	83.053335	82.852643	82.340206	81.842512
##	[4315]	81.578852	81.462243	81.267268	81.252786	80.893226	80.724200
##	[4321]	80.274499	80.122263	79.888926	79.281211	78.616533	78.362089
##	[4327]	77.971459	77.443779	76.136054	74.844600	74.588002	74.163159
##	[4333]	73.804335	73.360249	73.027265	72.786623	72.442699	71.725569
##	[4339]	70.581439	69.549583	69.428808	69.255009	69.092519	68.542547
##	[4345]	67.639341	67.402360	67.229945	66.544481	65.483095	64.838102
##	[4351]	64.771344	63.870045	62.327674	60.449604	58.583457	56.989963
##	[4357]	55.303361	53.678122	53.247154	52.749793	51.838653	50.661480
##	[4363]	50.423781	50.354078	49.581990	48.155323	46.313837	44.332721
##	[4369]	42.901587	42.515996	41.907953	40.613976	39.157345	38.085791
##	[4375]	37.527980	36.889583	36.093297	35.448529	35.419808	34.920738
##	[4381]	34.309361	33.717223	33.083918	32.249547	31.622138	31.418402
##	[4387]	31.257089	31.033452	30.906495	30.883448	30.797809	30.741453
##	[4393]	29.879786	28.767377	27.948867	27.754532	27.180715	26.113092
##	[4399]	25.234325	24.912954	24.585143	23.904065	23.146674	22.560361
##	[4405]	22.258310	22.169262	21.598222	20.247342	18.898102	17.769527
##	[4411]	16.988264	16.702847	16.674343	16.481244	16.189838	15.554461
##	[4417]	14.694198	14.141165	14.015792	13.900637	13.866372	13.654210
##	[4423]	13.292419	13.034901	12.959017	12.922956	12.683017	12.308261
##	[4429]	11.906174	11.290456	10.623083	10.202123	10.205576	9.904868
##	[4435]	9.522683	9.307972	9.197303	9.187299	8.920697	8.761200
##	[4441]	8.768887	8.645800	8.401879	8.214810	8.118804	8.102564
##	[4447]	8.106604	7.895920	7.647028	7.620861	7.575661	7.337460
##	[4453]	7.094532	6.843532	6.639353	6.533871	6.499660	6.512889
##	[4459]	6.416722	6.267010	6.070003	5.775096	5.487130	5.238878
##	[4465]	5.080585	4.949969	4.876227	4.819358	4.818129	4.817896
##	[4471]	4.795820	4.755075	4.725041	4.685122	4.631462	4.653638
##	[4477]	4.604553	4.530639	4.453363	4.364721	4.277045	4.230270
##	[4483]	4.127653	4.049412	3.979274	3.900963	3.852824	3.753943
##	[4489]	3.726882	3.696021	3.667344	3.659851	3.626524	3.622706
##	[4495]	3.611610	3.573989	3.562110	3.566285	3.558339	3.543865
##	[4501]	3.533425	3.507924	3.509739	3.490042	3.506148	3.528036
##	[4507]	3.544628	3.544569	3.476631	3.428086	3.400142	3.373359
##	[4513]	3.328455	3.276658	3.281637	3.292900	3.293210	3.297963
##	[4519]	3.301162	3.286694	3.273036	3.282113	3.290669	3.267932
##	[4525]	3.240834	3.223205	3.231239	3.233533	3.219224	3.209319
##	[4531]	3.216120	3.220774	3.231210	3.231066	3.229938	3.193394
##	[4537]	3.170894	3.187309	3.204729	3.208738	3.202068	3.202838
##	[4543]	3.195814	3.195683	3.196784	3.189937	3.213868	3.227258
##	[4549]	3.177642	3.194990	3.198683	3.217797	3.216815	3.191289
##	[4555]	3.197078	3.166090	3.160166	3.164885	3.155879	3.136743
##	[4561]	3.136837	3.151385	3.155013	3.156210	3.180462	3.190701
##	[4567]	3.200641	3.212246	3.211576	3.199590	3.178404	3.170424

##	[4573]	3.159881	3.183765	3.200045	3.235117	3.230619	3.214821
##	[4579]	3.218332	3.221246	3.197582	3.150137	3.112045	3.146974
##	[4585]	3.156376	3.150418	3.126128	3.109779	3.104215	3.098248
##	[4591]	3.116553	3.117075	3.106711	3.095316	3.081642	3.062396
##	[4597]	3.081572	3.093669	3.097388	3.086666	3.072009	3.076106
##	[4603]	3.108290	3.157246	3.140820	3.169967	3.175983	3.212651
##	[4609]	3.209405	3.200594	3.226846	3.214883	3.245095	3.249942
##	[4615]	3.230820	3.224335	3.244983	3.247550	3.222032	3.208751
##	[4621]	3.213007	3.215520	3.218512	3.217519	3.214621	3.212000
##	[4627]	3.222073	3.220137	3.231581	3.221158	3.232938	3.191076
##	[4633]	3.190593	3.208347	3.209310	3.192710	3.178335	3.182172
##	[4639]	3.193089	3.200201	3.199544	3.163259	3.129959	3.122837
##	[4645]	3.101830	3.093513	3.086994	3.109744	3.102833	3.082662
##	[4651]	3.042304	3.005035	3.010322	3.021770	3.007061	2.977156
##	[4657]	2.973565	2.981827	2.968242	2.980283	2.947027	2.919325
##	[4663]	2.928597	2.927239	2.926309	2.888494	2.873374	2.857841
##	[4669]	2.848309	2.868280	2.873105	2.891061	2.897882	2.882978
##	[4675]	2.868551	2.881694	2.845745	2.851556	2.849795	2.848726
##	[4681]	2.850025	2.848897	2.824395	2.815946	2.811386	2.821813
##	[4687]	2.867076	2.863815	2.882067	2.883599	2.896072	2.955828
##	[4693]	2.957257	2.993455	3.016485	3.037287	3.042679	3.092873
##	[4699]	3.308699	3.503400	3.569040	3.668767	3.889875	4.184671
##	[4705]	4.381121	4.526012	4.625800	4.742936	4.741640	4.741214
##	[4711]	4.933107	5.220267	5.439492	5.602693	5.799240	5.988805
##	[4717]	6.367896	6.692997	6.881219	7.698509	8.345253	8.589523
##	[4723]	9.712834	11.303185	12.728235	13.640213	14.102497	14.478274
##	[4729]	14.662932	14.863927	15.357565	15.919791	16.634503	17.410044
##	[4735]	18.218126	18.994566	19.431377	19.606386	19.870883	20.562331
##	[4741]	21.361012	21.648347	21.901085	22.364324	22.895212	23.008144
##	[4747]	23.253769	23.830330	24.890587	25.981780	26.627114	26.674976
##	[4753]	27.310133	27.635389	28.389168	29.785413	30.536158	31.117763
##	[4759]	31.942281	32.679555	32.970232	33.735215	34.575811	34.614647
##	[4765]	35.150105	35.314483	35.429962	35.597675	36.051591	36.361817
##	[4771]	36.600265	37.078543	37.391121	37.430324	37.739751	39.289359
##	[4777]	41.543989	42.886246	43.097714	44.486058	45.670363	46.328670
##	[4783]	46.551476	46.591145	47.153261	47.460142	47.761397	48.069654
##	[4789]	48.182282	48.228042	48.434501	49.145576	50.140142	50.686168
##	[4795]	50.813847	50.912929	50.937355	51.090485	51.814565	52.769046
##	[4801]	54.134911	55.611519	56.724813	57.259522	57.592412	58.579677
##	[4807]	59.734399	61.514408	64.158907	66.438888	67.561533	67.753822
##	[4813]	68.904010	70.297813	71.427819	72.694713	74.044841	75.244479
##	[4819]	76.168961	76.471145	77.813240	78.518692	79.221872	80.742172
##	[4825]	82.220349	83.314621	83.434255	84.443125	85.474812	86.067207
##	[4831]	86.979498	88.183464	89.250021	90.478322	92.002824	93.399389
##	[4837]	93.753573	94.718687	96.276304	97.554941	98.500846	99.035458
##	[4843]	99.061417	99.392159	99.527026	99.924581	100.538257	101.066256
##	[4849]	101.449229	101.975370	102.735544	103.479164	103.537991	104.343454
##	[4855]	105.589363	106.917142	108.034522	108.630993	108.789324	108.848938
##	[4861]	108.957799	109.215888	109.472743	109.847062	110.051435	110.215402
##	[4867]	110.726284	111.342251	111.829910	112.094012	112.170688	112.506303
##	[4873]	113.090622	113.315366	113.433215	113.968794	114.742948	115.523248
##	[4879]	116.265256	117.312520	118.106444	118.117003	118.609457	118.950977
##	[4885]	120.036794	121.232735	122.196008	122.578768	122.602319	122.829935
##	[4891]	123.242002	123.684748	124.294831	125.139761	126.350846	127.246468



##	[4897]	127.840620	127.899742	128.194238	128.635915	129.092069	129.325134
##	[4903]	129.429327	129.886461	130.340275	130.617992	130.566494	130.694422
##	[4909]	130.919751	131.104908	131.366624	131.809850	132.334711	132.788149
##	[4915]	132.802181	132.674706	132.656964	132.400489	132.195443	132.266849
##	[4921]	131.783243	131.454596	131.366132	130.387373	128.997861	127.792463
##	[4927]	127.131227	126.843913	126.590545	126.563810	126.501422	126.224336
##	[4933]	125.945253	125.531316	124.990353	124.342036	123.588747	123.180473
##	[4939]	122.998382	122.737871	122.071616	121.338228	121.143665	121.026715
##	[4945]	120.700503	120.301854	120.307392	120.168560	119.684572	118.727105
##	[4951]	117.741007	117.177584	117.174051	116.580281	116.290165	115.562596
##	[4957]	114.210272	113.524542	112.992125	112.233998	111.543971	111.284544
##	[4963]	110.559409	109.774340	109.746541	109.256907	109.088986	108.970736
##	[4969]	108.808658	108.350391	108.058256	107.823577	107.388825	107.077887
##	[4975]	107.035165	106.733723	105.179699	102.912189	101.569319	101.419739
##	[4981]	100.069838	98.916376	98.295705	98.097605	98.120466	97.549611
##	[4987]	97.243246	96.954133	96.633722	96.511797	96.484829	96.293766
##	[4993]	95.567180	94.595857	94.084618	93.941108	93.859504	93.854185
##	[4999]	93.683267	92.937277	91.975735	90.609793	89.151670	88.021683
##	[5005]	87.468260	87.093766	86.111594	84.933131	83.148768	80.495790
##	[5011]	78.219690	77.112931	76.896772	75.733173	74.315623	73.175563
##	[5017]	71.948101	70.625492	69.413226	68.483882	68.182337	66.840315
##	[5023]	66.137296	65.439488	63.932658	62.476636	61.401625	61.293180
##	[5029]	60.294038	59.292053	58.690048	57.782173	56.573802	55.532329
##	[5035]	54.320142	52.764132	51.362056	51.017704	50.086972	48.568401
##	[5041]	47.288496	46.330113	45.787982	45.769974	45.426773	45.284562
##	[5047]	44.870147	44.262568	43.731508	43.345486	42.821096	42.065464
##	[5053]	41.325699	41.269961	40.475460	39.219929	37.897371	36.804866
##	[5059]	36.234181	36.059215	35.998378	35.883501	35.638038	35.373323
##	[5065]	35.008685	34.807025	34.638728	34.143297	33.530147	33.040792
##	[5071]	32.788034	32.687034	32.372343	31.767821	31.556669	31.469344
##	[5077]	30.976468	30.191498	29.399673	28.655514	27.617889	26.824662
##	[5083]	26.845567	26.363114	26.037050	24.952100	23.756203	22.782661
##	[5089]	22.365464	22.377051	22.144242	21.751534	21.294783	20.623796
##	[5095]	19.765164	18.521786	17.606178	17.002082	16.941049	16.607451
##	[5101]	15.944588	15.313979	15.039835	14.848644	14.182268	13.418258
##	[5107]	12.919134	12.805758	12.567098	12.238626	12.087652	11.883632
##	[5113]	11.248442	10.478851	9.824848	9.688333	9.621385	9.439213
##	[5119]	9.336487	9.240404	8.985641	8.672955	8.360896	8.240868
##	[5125]	8.092901	7.876274	7.640647	7.403218	7.227294	7.088608
##	[5131]	6.931058	6.800074	6.575074	6.284839	5.991658	5.758241
##	[5137]	5.610687	5.561619	5.535392	5.562143	5.557400	5.524777
##	[5143]	5.445929	5.349216	5.247502	5.129117	5.016229	4.890958
##	[5149]	4.786830	4.654030	4.553717	4.449156	4.373494	4.329527
##	[5155]	4.268707	4.235897	4.202705	4.130173	4.059477	3.990565
##	[5161]	3.921495	3.867581	3.848501	3.826021	3.761509	3.747809
##	[5167]	3.703156	3.686996	3.698312	3.693170	3.705270	3.672910
##	[5173]	3.661297	3.625409	3.639995	3.625293	3.604854	3.586757
##	[5179]	3.583796	3.591111	3.534878	3.493872	3.448942	3.432325
##	[5185]	3.411256	3.398325	3.396388	3.415777	3.420209	3.425177
##	[5191]	3.427050	3.413709	3.408832	3.399028	3.368699	3.345986
##	[5197]	3.340227	3.354734	3.345287	3.357246	3.368053	3.373567
##	[5203]	3.389362	3.375520	3.377024	3.364539	3.359632	3.354399
##	[5209]	3.370840	3.399400	3.392515	3.401892	3.388207	3.391705
##	[5215]	3.415587	3.411774	3.400522	3.401371	3.350807	3.340211

##	[5221]	3.407478	3.443315	3.452017	3.462467	3.519026	3.526686
##	[5227]	3.549770	3.573867	3.615047	3.619741	3.586363	3.626822
##	[5233]	3.657143	3.672275	3.669539	3.661272	3.698621	3.738672
##	[5239]	3.771068	3.735474	3.705354	3.693174	3.726658	3.747487
##	[5245]	3.785068	3.806866	3.825063	3.829747	3.832694	3.847590
##	[5251]	3.851304	3.846900	3.850231	3.844606	3.864295	3.856558
##	[5257]	3.862918	3.849421	3.847308	3.823581	3.853289	3.849273
##	[5263]	3.860553	3.869738	3.898277	3.907023	3.932907	3.938560
##	[5269]	3.921701	3.920383	3.924829	3.912534	3.938482	3.932326
##	[5275]	3.937804	3.922295	3.904117	3.858262	3.854290	3.855776
##	[5281]	3.847640	3.862802	3.864784	3.831970	3.850516	3.836422
##	[5287]	3.877486	3.886189	3.883745	3.882830	3.859253	3.888576
##	[5293]	3.861615	3.844627	3.856471	3.859373	3.856071	3.856749
##	[5299]	3.853077	3.864150	3.845926	3.875900	3.872122	3.864390
##	[5305]	3.859656	3.858722	3.865660	3.870117	3.887018	3.877794
##	[5311]	3.879012	3.818299	3.772854	3.770774	3.745263	3.711344
##	[5317]	3.692773	3.695797	3.707015	3.682199	3.649419	3.689245
##	[5323]	3.694339	3.683276	3.646161	3.649693	3.639956	3.636768
##	[5329]	3.629905	3.622888	3.619925	3.626095	3.613257	3.614739
##	[5335]	3.624988	3.625399	3.612633	3.608332	3.623785	3.621571
##	[5341]	3.578496	3.586870	3.578657	3.598212	3.618437	3.602183
##	[5347]	3.593737	3.582840	3.576965	3.585679	3.588560	3.578464
##	[5353]	3.592656	3.573568	3.561574	3.564623	3.573365	3.591605
##	[5359]	3.608943	3.615045	3.612044	3.608244	3.621407	3.609384
##	[5365]	3.597040	3.594173	3.592323	3.596772	3.616191	3.596402
##	[5371]	3.592228	3.575028	3.590349	3.583897	3.578612	3.592262
##	[5377]	3.582456	3.592839	3.594063	3.578461	3.559165	3.566352
##	[5383]	3.573761	3.610788	3.621812	3.608667	3.583932	3.637995
##	[5389]	3.650593	3.722424	4.019471	4.321679	4.386386	4.506296
##	[5395]	4.822586	5.126970	5.382343	5.642262	5.787796	5.811210
##	[5401]	5.795974	5.788710	5.797951	5.857452	6.011000	6.277849
##	[5407]	6.631913	6.823768	6.919031	7.026144	7.375006	7.806556
##	[5413]	7.911846	8.432678	8.947285	8.937476	9.066232	9.155111
##	[5419]	9.467352	9.900731	10.176887	10.375793	10.521438	10.538673
##	[5425]	10.807536	11.010627	11.451922	12.029002	12.692889	13.536471
##	[5431]	14.496702	15.732936	16.009917	16.664630	17.950133	19.440527
##	[5437]	20.670751	21.525648	21.991812	22.195579	22.310096	22.701667
##	[5443]	24.115268	25.221763	25.205202	25.892458	26.294130	26.952659
##	[5449]	29.370286	31.835183	31.867048	34.583764	37.885803	40.549565
##	[5455]	42.191336	42.420282	42.862414	43.629863	44.433584	45.206928
##	[5461]	46.163458	47.519030	49.175549	50.256103	50.268711	50.754049
##	[5467]	51.648800	52.747157	54.012808	55.029585	55.496512	56.131225
##	[5473]	57.128060	57.807509	58.015258	58.542691	59.630153	60.971554
##	[5479]	62.274160	63.716164	64.877365	65.020800	65.618649	67.041862
##	[5485]	68.950197	70.515911	71.665800	72.679849	73.739039	74.397351
##	[5491]	75.225518	76.530305	76.667920	77.580807	78.983541	79.760383
##	[5497]	80.142967	81.092616	82.242425	83.584650	84.292377	84.309360
##	[5503]	84.378430	84.716497	85.779341	86.488732	87.379390	89.860525
##	[5509]	92.884026	94.991626	95.575821	96.186671	97.192096	98.284009
##	[5515]	99.326782	100.138009	100.449251	100.441198	100.472483	100.501156
##	[5521]	100.618744	101.260596	102.286760	103.016949	103.508123	104.561179
##	[5527]	105.689033	106.240163	106.261592	106.499181	106.614756	106.877586
##	[5533]	107.452515	107.857429	108.486075	109.500535	110.430774	111.363260
##	[5539]	111.984875	112.387865	112.528581	112.779681	113.493139	113.850723

##	[5545]	113.863342	113.944528	114.586131	116.055476	117.649778	119.009534
##	[5551]	119.882732	120.174030	120.385559	120.737338	120.854959	121.206787
##	[5557]	122.114808	123.174962	124.383757	125.509759	126.361584	127.012890
##	[5563]	127.780835	129.038846	131.008812	132.082206	132.387908	133.509993
##	[5569]	134.782321	135.668051	136.034320	136.077144	136.390662	136.692420
##	[5575]	136.957374	137.175398	137.365513	137.558984	137.646124	137.704943
##	[5581]	137.782862	137.893188	138.063737	138.297934	138.306491	138.723047
##	[5587]	139.476468	140.444034	141.410331	142.139225	142.590759	142.502823
##	[5593]	142.341909	142.661282	143.047980	143.112072	142.956091	142.842065
##	[5599]	142.847858	142.985148	143.284496	143.680393	144.010973	144.025547
##	[5605]	144.357010	144.643315	144.548334	144.190771	144.090980	144.101327
##	[5611]	144.023602	143.765497	143.819682	144.322878	144.150963	143.658160
##	[5617]	144.190898	144.794309	145.281170	145.103902	144.786731	144.833152
##	[5623]	144.949783	145.184494	145.603502	145.716332	145.783873	145.528171
##	[5629]	145.082222	144.454375	143.614704	142.653383	141.445982	141.185651
##	[5635]	140.544539	139.315854	137.889925	136.773935	136.000505	135.612255
##	[5641]	135.461701	135.434152	135.106784	133.739939	132.670280	132.767323
##	[5647]	132.140268	131.799783	131.210783	128.886490	126.495863	126.499675
##	[5653]	123.814008	120.554846	117.881502	116.243515	115.999945	115.578028
##	[5659]	114.821077	114.023462	113.229881	112.280317	110.928241	109.313584
##	[5665]	108.241843	108.287444	107.849314	107.001460	105.914326	104.654264
##	[5671]	103.658620	103.194826	102.555321	101.586503	100.878392	100.649987
##	[5677]	100.112108	99.034685	97.680830	96.410440	94.977799	93.847892
##	[5683]	93.712897	93.119310	91.701866	89.816671	88.257976	87.138485
##	[5689]	86.085892	85.008155	84.347104	83.517979	82.197942	82.015303
##	[5695]	81.099108	79.704720	78.908553	78.551453	77.609707	76.451841
##	[5701]	75.103060	74.395570	74.403596	74.312335	73.960729	72.883258
##	[5707]	72.171078	71.251294	68.787209	65.772156	63.653301	63.058023
##	[5713]	62.420954	61.411266	60.317230	59.275290	58.452938	58.141614
##	[5719]	58.143998	58.116142	58.079321	57.954331	57.348311	56.268736
##	[5725]	55.546739	55.064119	54.025392	52.892667	52.369596	52.340976
##	[5731]	52.096600	52.014725	51.788021	51.232499	50.834437	50.208590
##	[5737]	49.182253	48.246495	47.314549	46.700296	46.291539	46.162834
##	[5743]	45.922923	45.212636	44.855064	44.854777	44.789659	44.159688
##	[5749]	42.737284	41.163474	39.836180	38.954483	38.666200	38.447238
##	[5755]	38.080094	37.962367	37.612172	36.715716	35.652986	34.421427
##	[5761]	33.295394	32.440647	31.790063	31.031322	29.762557	27.782282
##	[5767]	26.713396	26.438230	25.313245	24.047475	23.139489	22.767605
##	[5773]	22.724111	22.433579	22.131995	21.871513	21.669751	21.471364
##	[5779]	21.288173	21.170370	21.116523	21.033057	20.931473	20.748666
##	[5785]	20.526374	20.482259	20.034818	19.302160	18.319681	17.285447
##	[5791]	16.511060	15.971813	15.780388	15.678105	15.280774	14.768903
##	[5797]	14.411695	14.267202	14.122960	13.856808	13.563648	13.227033
##	[5803]	12.829865	12.514870	12.509158	12.118505	11.673390	11.502317
##	[5809]	11.493407	11.404907	11.299549	11.265558	11.167141	10.678374
##	[5815]	10.069611	9.731026	9.705378	9.167692	8.434216	7.878348
##	[5821]	7.705574	7.600761	7.310149	6.965298	6.582040	6.157140
##	[5827]	5.790381	5.474459	5.263919	5.100472	5.025436	4.973434
##	[5833]	4.957231	4.941333	4.892821	4.839673	4.786404	4.719079
##	[5839]	4.610164	4.492232	4.377553	4.299473	4.219444	4.151457
##	[5845]	4.131235	4.066982	3.961189	3.882436	3.817191	3.772247
##	[5851]	3.687096	3.612638	3.557145	3.497471	3.455962	3.459250
##	[5857]	3.462523	3.459241	3.435015	3.419049	3.420390	3.427510
##	[5863]	3.431527	3.435588	3.394941	3.372454	3.293852	3.217330

##	[5869]	3.143898	3.104790	3.092419	3.074104	3.066839	3.072409
##	[5875]	3.063452	3.087131	3.100807	3.098349	3.095207	3.104814
##	[5881]	3.099613	3.094062	3.102511	3.112321	3.118125	3.137649
##	[5887]	3.113149	3.083971	3.095663	3.099139	3.100679	3.109253
##	[5893]	3.152586	3.149894	3.153106	3.162412	3.173019	3.191279
##	[5899]	3.177211	3.169922	3.176327	3.208706	3.206089	3.178978
##	[5905]	3.194993	3.199448	3.198803	3.202217	3.200955	3.185016
##	[5911]	3.180835	3.194201	3.194223	3.201070	3.203919	3.210196
##	[5917]	3.209021	3.212686	3.207635	3.216377	3.234704	3.247977
##	[5923]	3.255215	3.225531	3.224729	3.210851	3.204462	3.199298
##	[5929]	3.190673	3.164839	3.158572	3.163482	3.155683	3.126839
##	[5935]	3.130591	3.136332	3.130411	3.124530	3.135457	3.149811
##	[5941]	3.171300	3.189477	3.183080	3.186960	3.160340	3.158371
##	[5947]	3.138649	3.112855	3.090209	3.026980	2.992534	2.976483
##	[5953]	3.010232	3.031097	3.029482	3.056112	3.054121	3.072213
##	[5959]	3.102301	3.123444	3.131327	3.149543	3.169882	3.182640
##	[5965]	3.192852	3.224944	3.256297	3.257896	3.226800	3.224605
##	[5971]	3.208578	3.226182	3.225114	3.219117	3.233220	3.222826
##	[5977]	3.209334	3.190747	3.193191	3.195552	3.189533	3.176606
##	[5983]	3.198010	3.204311	3.211125	3.209784	3.224143	3.279620
##	[5989]	3.282621	3.284882	3.308170	3.333610	3.346667	3.355730
##	[5995]	3.318492	3.324742	3.317083	3.325286	3.345486	3.361293
##	[6001]	3.359222	3.333341	3.357366	3.375491	3.362036	3.346664
##	[6007]	3.343410	3.375647	3.384493	3.394951	3.402342	3.416222
##	[6013]	3.395505	3.369782	3.356053	3.352827	3.340604	3.335252
##	[6019]	3.331307	3.329146	3.316370	3.319670	3.322808	3.307494
##	[6025]	3.278255	3.260758	3.266623	3.237001	3.221437	3.239176
##	[6031]	3.240350	3.235454	3.222922	3.230029	3.231390	3.227861
##	[6037]	3.222496	3.202636	3.177844	3.166523	3.170038	3.167233
##	[6043]	3.144342	3.154388	3.146780	3.127966	3.128532	3.139355
##	[6049]	3.118613	3.110272	3.076730	3.081582	3.098848	3.104960
##	[6055]	3.116104	3.114029	3.127797	3.122673	3.123399	3.146401
##	[6061]	3.158449	3.151919	3.140726	3.134390	3.132172	3.129055
##	[6067]	3.142983	3.152332	3.158118	3.161897	3.157911	3.176225
##	[6073]	3.241616	3.338332	3.412481	3.415999	3.433137	3.508182
##	[6079]	3.559007	3.703064	3.926850	4.198027	4.411295	4.484234
##	[6085]	4.519493	4.625145	4.599935	4.592506	4.670629	4.786242
##	[6091]	5.370523	5.889091	6.100383	6.137059	6.421397	6.671240
##	[6097]	6.718287	6.792413	6.779552	7.095723	7.414270	7.854646
##	[6103]	8.461080	9.217063	9.664469	9.872198	10.456515	11.035813
##	[6109]	11.422433	11.628546	11.787126	12.073963	12.317020	12.418790
##	[6115]	12.487187	12.489312	12.779428	13.270587	13.588803	13.720310
##	[6121]	14.153304	15.263456	16.608865	17.147742	17.167669	17.229184
##	[6127]	17.745214	19.023268	20.540998	21.774393	22.503059	22.798075
##	[6133]	22.856873	22.859064	23.243781	23.833645	24.486686	25.381070
##	[6139]	25.917328	26.074499	26.168741	26.389459	26.624362	26.709271
##	[6145]	27.018921	27.269362	28.217593	29.646192	30.467239	30.676832
##	[6151]	30.866441	31.151009	31.702734	31.765324	31.949596	32.907738
##	[6157]	33.518838	33.807920	34.598180	36.570175	38.596640	40.003802
##	[6163]	40.684816	40.788962	41.244894	41.977417	42.441583	42.522560
##	[6169]	43.625676	44.961868	46.256633	47.486924	47.812562	48.390888
##	[6175]	49.552529	50.775066	51.653649	52.431760	53.097513	53.614385
##	[6181]	53.862232	54.005021	54.488226	55.054168	55.409478	55.590745
##	[6187]	56.055597	56.504389	56.736564	57.598894	58.953396	59.955036

##	[6193]	60.432483	60.762446	61.202618	61.292872	61.572843	62.298587
##	[6199]	63.578027	63.974676	64.354647	65.066346	65.378335	65.820615
##	[6205]	66.535150	66.799375	66.934124	67.292283	68.453134	68.864852
##	[6211]	69.684700	71.160520	72.741402	73.895596	74.588132	75.151934
##	[6217]	75.177810	75.530434	75.783044	75.854839	75.981756	76.544074
##	[6223]	77.650181	78.764833	80.060636	81.642402	82.738499	82.758269
##	[6229]	83.713947	85.089709	86.323432	87.048533	87.181654	87.291034
##	[6235]	87.631886	88.175065	88.942153	89.863040	90.709119	91.487003
##	[6241]	91.838612	92.018866	92.187311	92.253039	92.281035	92.581596
##	[6247]	93.317455	94.303906	94.964434	95.827953	96.871420	97.966070
##	[6253]	98.826598	99.513350	100.083272	100.329075	100.348623	100.410213
##	[6259]	100.616633	100.853781	101.372450	102.293467	103.190584	103.905676
##	[6265]	105.040113	105.988726	106.023169	106.953622	107.875113	108.208448
##	[6271]	108.375077	108.891639	109.713790	110.515468	111.146332	111.065007
##	[6277]	111.872210	113.409937	115.024752	116.407274	117.134251	117.279389
##	[6283]	116.999027	117.160026	117.657563	118.379207	119.136997	120.048711
##	[6289]	120.913574	121.536534	121.878008	121.446236	121.007621	121.021845
##	[6295]	121.530946	121.939729	122.229257	122.384989	122.407920	122.716571
##	[6301]	122.716974	122.727570	122.595870	122.293282	121.856645	121.771630
##	[6307]	121.931876	121.665595	121.386762	121.290493	121.324701	121.343471
##	[6313]	121.250711	121.140173	121.184212	121.261860	121.369011	121.155829
##	[6319]	120.731148	120.463399	120.381555	119.963339	118.860976	117.502283
##	[6325]	116.979424	116.996750	117.007463	116.538513	115.324256	113.853281
##	[6331]	112.709681	112.027748	111.806456	111.814519	111.859609	111.538291
##	[6337]	110.985298	110.398795	109.563226	109.093173	108.978244	108.930787
##	[6343]	108.751538	108.554062	108.538345	108.289305	108.107869	107.239834
##	[6349]	105.889329	105.125311	104.956208	104.779913	104.507506	103.944806
##	[6355]	103.849424	103.660464	102.703714	102.072117	101.778982	100.980819
##	[6361]	98.969555	96.921304	95.512740	94.812208	94.695561	94.230197
##	[6367]	93.468327	92.995394	92.885895	91.772299	90.454828	89.218035
##	[6373]	88.054151	87.736269	87.186114	86.040002	84.797766	83.932264
##	[6379]	83.186051	82.526056	82.026014	81.808070	81.712752	81.249952
##	[6385]	80.677839	80.367595	80.182361	79.719229	79.261604	78.975085
##	[6391]	78.094720	76.743647	75.714666	75.213239	74.871281	74.405819
##	[6397]	74.315076	74.023546	73.318690	72.029784	71.624853	71.228802
##	[6403]	70.528165	70.230938	69.759371	69.040249	68.822225	68.688624
##	[6409]	68.340873	67.166933	66.757573	65.936409	64.456118	62.859407
##	[6415]	61.706888	61.011534	60.449836	60.442328	60.100381	59.861578
##	[6421]	59.836490	59.723884	59.165544	58.066367	56.964261	55.659584
##	[6427]	54.079241	53.018734	53.032587	52.084329	50.738998	49.513084
##	[6433]	48.804232	48.662075	48.573158	48.239845	47.692468	46.923019
##	[6439]	46.000767	45.144674	44.390327	44.023778	43.834209	43.665127
##	[6445]	43.611196	43.582184	43.279029	42.547360	41.553024	40.906279
##	[6451]	40.037838	38.994583	37.889179	37.027564	36.325159	35.766757
##	[6457]	35.520663	35.500346	35.428466	35.231879	34.991628	34.469018
##	[6463]	33.535117	32.630930	31.929862	30.790316	29.824713	29.790064
##	[6469]	28.845852	27.931769	27.617157	27.454592	26.933068	26.105880
##	[6475]	25.241882	24.514897	24.527255	23.702915	22.137081	20.473346
##	[6481]	19.082765	18.220234	17.840651	17.827111	17.480503	16.919604
##	[6487]	16.178932	15.344792	14.470306	13.607934	12.902579	12.424286
##	[6493]	12.277922	12.203579	11.996892	11.415639	10.792410	10.249409
##	[6499]	10.074701	9.974376	9.656537	9.330684	9.017395	8.706887
##	[6505]	8.413742	8.092852	7.743019	7.366041	7.058106	6.769644
##	[6511]	6.487460	6.255314	6.070074	5.883341	5.741965	5.608431

##	[6517]	5.446465	5.341657	5.263340	5.199722	5.146064	5.103064
##	[6523]	5.069919	5.032386	5.032895	5.037180	5.001268	4.943676
##	[6529]	4.895369	4.832678	4.789711	4.713028	4.684620	4.626435
##	[6535]	4.567697	4.507247	4.446366	4.397994	4.341220	4.277780
##	[6541]	4.211106	4.164254	4.114995	4.050128	3.997112	3.924549
##	[6547]	3.882127	3.839266	3.757500	3.678983	3.674782	3.627231
##	[6553]	3.630552	3.624705	3.625054	3.623186	3.608787	3.610184
##	[6559]	3.640858	3.675319	3.694887	3.713788	3.743307	3.770314
##	[6565]	3.786218	3.777646	3.775307	3.790654	3.786034	3.836813
##	[6571]	3.839789	3.825999	3.781567	3.714301	3.709188	3.680680
##	[6577]	3.664453	3.653559	3.654783	3.627139	3.613810	3.593916
##	[6583]	3.599555	3.554460	3.556364	3.530134	3.485095	3.480273
##	[6589]	3.471676	3.470592	3.477457	3.483352	3.475425	3.467293
##	[6595]	3.463670	3.472442	3.494236	3.499930	3.512373	3.504114
##	[6601]	3.499090	3.500106	3.514571	3.510510	3.504655	3.535196
##	[6607]	3.536448	3.494644	3.518299	3.500751	3.500993	3.524024
##	[6613]	3.538058	3.537146	3.568074	3.562726	3.562900	3.567622
##	[6619]	3.540328	3.529515	3.539159	3.499216	3.475023	3.470046
##	[6625]	3.466821	3.438625	3.435421	3.439924	3.388926	3.338458
##	[6631]	3.333610	3.302021	3.298621	3.299252	3.303356	3.304743
##	[6637]	3.281935	3.298206	3.309340	3.319548	3.355633	3.356121
##	[6643]	3.367434	3.386863	3.399018	3.388294	3.378866	3.379300
##	[6649]	3.371039	3.374991	3.355541	3.362270	3.355438	3.361493
##	[6655]	3.355793	3.346121	3.346703	3.337658	3.336733	3.333239
##	[6661]	3.317601	3.333987	3.321700	3.326545	3.332495	3.339285
##	[6667]	3.338299	3.328498	3.331720	3.350959	3.348385	3.347319
##	[6673]	3.347032	3.362148	3.374322	3.384161	3.414234	3.398483
##	[6679]	3.403298	3.400391	3.371028	3.341408	3.329984	3.332752
##	[6685]	3.332323	3.307098	3.271367	3.229414	3.171152	3.128667
##	[6691]	3.138065	3.144029	3.125476	3.116888	3.126392	3.092217
##	[6697]	3.081680	3.031797	3.044033	3.009497	2.996495	3.023411
##	[6703]	3.025667	3.029805	3.031594	2.997717	2.985999	2.979076
##	[6709]	2.973321	2.962603	2.941787	2.932073	2.943110	2.985590
##	[6715]	2.979051	2.971587	2.972214	2.986676	2.985189	2.972709
##	[6721]	2.989081	2.996163	2.993483	2.997626	2.995473	3.010490
##	[6727]	3.000660	3.004012	3.012410	2.986982	2.994683	2.983386
##	[6733]	2.975393	2.952880	2.948411	2.933119	2.933771	2.945634
##	[6739]	2.935453	2.961127	2.957508	2.957932	2.943726	2.936495
##	[6745]	2.942501	2.971491	2.964140	2.962278	2.949608	3.124822
##	[6751]	3.367589	3.401229	3.488016	3.666269	3.931471	4.159534
##	[6757]	4.380616	4.460182	4.561161	4.582265	4.614975	4.716163
##	[6763]	4.734039	4.743147	4.808358	4.842692	5.228246	5.879055
##	[6769]	6.600101	7.166851	7.884672	8.514692	8.540900	9.420181
##	[6775]	10.820589	12.018998	12.619992	12.656120	12.736011	13.110963
##	[6781]	13.547839	13.883369	14.104919	14.240256	14.386382	14.501073
##	[6787]	14.673778	14.772888	14.858673	15.213050	16.081460	17.212233
##	[6793]	18.474044	19.355045	19.812982	20.342099	20.867757	21.328743
##	[6799]	21.571438	21.983692	23.119725	24.416796	25.174855	25.523744
##	[6805]	25.947898	26.848067	27.713401	27.712848	28.550834	29.412060
##	[6811]	29.498014	29.633815	29.973231	30.430854	30.519187	30.625482
##	[6817]	30.908687	31.373041	31.458107	31.655305	31.814872	32.069619
##	[6823]	32.193264	33.299203	34.675940	35.406215	35.916587	37.152660
##	[6829]	38.750063	39.965708	40.525546	40.606883	41.816568	43.817640
##	[6835]	45.524380	46.682617	46.777466	47.653917	48.754627	49.663611

##	[6841]	50.271450	51.004890	52.525098	53.630154	53.704305	54.792166
##	[6847]	56.301251	57.477364	58.209246	58.452810	58.464420	58.514386
##	[6853]	58.927220	60.216315	61.340404	61.940719	62.329912	62.699706
##	[6859]	62.783478	63.259836	64.069017	64.258602	64.447164	64.812756
##	[6865]	65.352276	66.527270	67.878327	68.410012	69.468617	71.934611
##	[6871]	74.993846	77.273292	78.105883	78.121945	78.387263	78.415131
##	[6877]	78.954400	79.287896	80.050119	80.609749	80.917393	81.098369
##	[6883]	81.913313	83.729052	86.295014	88.860954	90.912424	92.395947
##	[6889]	92.516164	93.719687	95.500076	97.412320	99.012727	100.032865
##	[6895]	100.384978	100.461039	100.483459	100.649020	101.025465	101.730100
##	[6901]	102.798756	103.977458	104.794144	105.064860	106.060845	107.260613
##	[6907]	107.848809	107.982323	107.984155	108.295962	109.289603	110.358347
##	[6913]	110.980678	111.271065	111.591193	112.296904	112.582093	112.883831
##	[6919]	113.415160	113.744504	113.875972	114.360297	114.899464	115.595596
##	[6925]	116.417768	116.636984	117.380440	118.711891	119.949456	120.303303
##	[6931]	121.287730	123.230337	124.668688	124.986051	125.553526	126.145894
##	[6937]	126.436123	126.675445	127.313451	127.814323	127.785249	128.423427
##	[6943]	129.480569	130.431190	130.744595	130.766097	130.806059	131.183518
##	[6949]	131.298562	131.309742	131.405369	132.060263	132.313323	132.353711
##	[6955]	132.995733	134.019976	135.236142	136.138155	136.521109	136.529325
##	[6961]	137.214697	138.257580	139.539064	140.837734	141.753775	141.992281
##	[6967]	142.072698	142.143581	141.956315	141.812435	141.915290	141.752202
##	[6973]	141.571312	141.719766	140.915406	139.535094	138.318353	137.714869
##	[6979]	137.695148	138.126364	138.147046	137.771212	138.060453	138.746915
##	[6985]	139.404088	139.853871	139.831150	139.827377	139.886533	139.913851
##	[6991]	139.603267	138.823780	137.835180	136.770832	136.519751	136.792991
##	[6997]	136.597797	136.174344	135.972368	136.336473	137.107318	137.255268
##	[7003]	136.733386	136.044042	135.836390	135.720457	135.409601	135.339919
##	[7009]	136.215177	136.115376	135.842437	136.244836	136.528707	136.508297
##	[7015]	136.317240	136.488608	136.605358	136.497654	136.165359	136.131567
##	[7021]	135.931481	135.773924	135.519915	135.483786	134.569110	133.390836
##	[7027]	132.885569	132.618998	131.590892	130.240224	129.202260	128.820293
##	[7033]	128.900587	127.851754	126.039671	124.518738	123.553713	123.614553
##	[7039]	122.866387	121.861125	121.033075	120.531899	119.856148	118.349820
##	[7045]	117.289528	117.264285	116.162750	114.666495	113.517356	112.795475
##	[7051]	112.561112	112.567673	112.515196	112.099514	110.835079	109.749745
##	[7057]	109.173081	108.840076	108.508064	108.492291	108.093753	107.343255
##	[7063]	107.202807	107.047997	106.731528	106.257772	105.156239	103.844396
##	[7069]	103.382276	102.380544	99.989719	96.964050	94.705493	93.896369
##	[7075]	93.901552	93.657509	93.625630	93.120225	92.774669	92.058801
##	[7081]	91.492779	91.197790	91.023454	90.210549	88.383823	85.834228
##	[7087]	83.276326	81.244257	79.746485	79.650877	78.453520	76.678748
##	[7093]	74.760238	73.163684	72.173068	71.819386	71.742717	71.745954
##	[7099]	71.593823	71.219125	70.543120	69.516913	68.377562	67.538540
##	[7105]	67.283948	66.317378	65.129695	64.539235	64.404986	64.397199
##	[7111]	64.077810	63.089159	62.019010	61.385925	61.084357	60.729108
##	[7117]	60.018959	59.757286	59.464913	58.940545	58.620420	58.510407
##	[7123]	58.014790	57.465805	56.771024	55.957343	55.743558	54.986827
##	[7129]	53.664739	52.448126	52.113759	51.142852	49.199046	47.773803
##	[7135]	47.449079	46.898918	46.304760	46.015253	45.793153	45.137980
##	[7141]	44.628831	44.625292	43.988704	42.957424	42.005898	41.692764
##	[7147]	41.658214	41.581037	41.201272	41.076223	41.059261	40.786161
##	[7153]	39.894706	39.550364	39.441432	38.609835	37.317427	35.886233
##	[7159]	34.767875	34.305935	34.202552	33.474992	32.364388	30.955541

##	[7165]	29.635702	28.697983	28.366291	28.234006	27.799321	27.343144
##	[7171]	26.775064	26.090049	25.492631	25.050549	24.904030	24.847594
##	[7177]	24.825530	24.851601	24.856182	24.855978	24.343520	23.941880
##	[7183]	23.885845	23.299886	22.389958	21.577426	20.991651	20.897408
##	[7189]	20.752767	20.596279	20.495887	20.463579	20.367200	20.220897
##	[7195]	20.010891	19.434470	18.733983	18.390878	18.297293	18.013803
##	[7201]	17.403660	16.222997	14.934578	14.145219	14.059747	13.907020
##	[7207]	13.599131	13.002487	12.180562	11.293917	10.561752	9.941682
##	[7213]	9.446443	9.036642	8.692644	8.407367	8.155346	7.900265
##	[7219]	7.739680	7.610549	7.552507	7.555447	7.552913	7.531230
##	[7225]	7.436980	7.255908	7.060187	6.849090	6.613737	6.410403
##	[7231]	6.181075	6.013026	5.832135	5.678149	5.517274	5.320915
##	[7237]	5.108641	4.924896	4.771075	4.647683	4.524263	4.433716
##	[7243]	4.327349	4.268770	4.244392	4.187964	4.121507	4.122516
##	[7249]	4.112367	4.079701	4.066565	4.065345	4.044525	4.076215
##	[7255]	4.071936	4.058318	4.018723	3.986028	3.926435	3.872139
##	[7261]	3.807873	3.731790	3.669669	3.631342	3.577199	3.531873
##	[7267]	3.455899	3.374227	3.311225	3.241571	3.189747	3.126189
##	[7273]	3.075222	3.040933	2.996193	2.972947	2.936116	2.917685
##	[7279]	2.872824	2.861535	2.838004	2.835194	2.810436	2.810154
##	[7285]	2.816709	2.825594	2.824839	2.818603	2.806131	2.807933
##	[7291]	2.789258	2.779359	2.763189	2.755210	2.738804	2.715980
##	[7297]	2.716709	2.720501	2.689139	2.669459	2.652201	2.616332
##	[7303]	2.585235	2.560978	2.566068	2.562608	2.508922	2.518272
##	[7309]	2.515730	2.513082	2.510402	2.509992	2.503033	2.518793
##	[7315]	2.525630	2.528656	2.523306	2.533706	2.512054	2.500495
##	[7321]	2.487566	2.478595	2.463114	2.463272	2.462094	2.459231
##	[7327]	2.439082	2.466739	2.470402	2.456676	2.437687	2.434488
##	[7333]	2.458709	2.475262	2.498833	2.518559	2.500092	2.497693
##	[7339]	2.497146	2.473753	2.488684	2.506382	2.504168	2.504373
##	[7345]	2.482973	2.484838	2.486911	2.486355	2.476638	2.512032
##	[7351]	2.499185	2.492072	2.490676	2.487298	2.503623	2.494335
##	[7357]	2.491956	2.490580	2.471957	2.467969	2.462120	2.456841
##	[7363]	2.449494	2.465925	2.459861	2.438934	2.421242	2.424196
##	[7369]	2.409676	2.402422	2.413918	2.403418	2.415912	2.406281
##	[7375]	2.408091	2.376974	2.349360	2.374496	2.344167	2.355522
##	[7381]	2.339122	2.343189	2.333447	2.331774	2.308509	2.287037
##	[7387]	2.272171	2.258154	2.255522	2.250112	2.238609	2.232830
##	[7393]	2.223247	2.221820	2.215474	2.216180	2.161159	2.130540
##	[7399]	2.140865	2.134451	2.145668	2.150950	2.140894	2.132626
##	[7405]	2.139859	2.139537	2.130882	2.119895	2.128257	2.121078
##	[7411]	2.117698	2.100438	2.102450	2.105873	2.085768	2.090179
##	[7417]	2.088656	2.073701	2.074300	2.062059	2.060863	2.068666
##	[7423]	2.065759	2.066090	2.072004	2.080703	2.078060	2.114806
##	[7429]	2.115270	2.140509	2.169922	2.140080	2.156540	2.170761
##	[7435]	2.211793	2.427187	2.709609	2.860651	2.856052	2.991193
##	[7441]	3.143034	3.320952	3.479404	3.583015	3.580140	3.569333
##	[7447]	3.650534	3.701037	4.064255	4.207178	4.402173	4.468198
##	[7453]	4.457430	4.460078	4.476220	4.687329	4.959134	5.210596
##	[7459]	5.343528	5.512032	6.072085	6.811090	7.484895	7.832975
##	[7465]	8.144286	8.320703	8.323753	8.518068	8.953746	9.434059
##	[7471]	9.771790	9.988560	10.521144	11.406165	12.190261	12.523688
##	[7477]	12.760665	12.832472	12.863308	13.039117	13.105315	13.501224
##	[7483]	13.514549	13.574337	13.673734	14.419768	16.181612	18.202098



##	[7489]	19.761238	20.641610	20.919792	21.228986	21.539885	22.269721
##	[7495]	23.852961	25.788391	26.325615	27.338183	28.235300	28.368465
##	[7501]	29.046300	30.274713	30.771567	30.888621	31.008248	31.605980
##	[7507]	33.120031	34.041195	34.508531	36.314826	38.807969	41.076654
##	[7513]	41.996642	42.257735	43.107383	43.815609	44.371638	44.906410
##	[7519]	45.183498	45.547557	46.267248	47.538877	48.856504	49.691662
##	[7525]	50.236388	50.846958	50.846694	51.620158	52.966143	54.243910
##	[7531]	54.851200	55.162608	55.538761	55.580082	55.849647	56.112256
##	[7537]	56.827431	57.594103	57.886338	58.840248	59.513155	59.753581
##	[7543]	59.808236	59.879648	60.007502	60.194424	60.370010	60.364440
##	[7549]	61.873395	63.877076	64.373356	67.170589	69.896815	72.128768
##	[7555]	74.157828	75.802352	76.777421	77.294568	78.593833	80.254804
##	[7561]	81.833663	82.895322	83.649766	84.265090	85.033934	85.600116
##	[7567]	86.044435	86.730846	87.623401	88.198306	88.205421	88.592513
##	[7573]	88.791454	89.299982	90.384145	91.164260	91.253994	91.690611
##	[7579]	92.594152	93.772132	95.009402	96.060604	97.084174	97.638823
##	[7585]	97.793654	98.333450	98.563951	99.312312	101.388154	104.320904
##	[7591]	107.139240	109.390150	110.938355	111.510769	111.786252	112.911863
##	[7597]	114.638344	115.946555	116.521077	116.545517	116.662041	117.494125
##	[7603]	118.808613	119.867016	120.537183	120.785858	121.992861	123.291575
##	[7609]	124.129443	124.121332	126.158961	127.589073	128.002722	128.121567
##	[7615]	128.149587	128.529791	128.912433	129.026122	129.263814	129.563327
##	[7621]	129.716842	130.446909	131.026148	131.448898	132.722067	133.903901
##	[7627]	134.499457	134.503471	134.661985	134.795470	134.932585	135.963583
##	[7633]	136.925196	136.982475	137.687122	138.224998	138.321972	138.095272
##	[7639]	138.144691	138.544696	138.572410	138.621229	139.132618	139.827109
##	[7645]	140.479831	140.862368	140.890293	140.850440	141.022428	140.807213
##	[7651]	140.701375	140.866377	141.162483	141.338217	141.341400	141.427235
##	[7657]	141.467371	141.235137	141.164999	141.172411	141.058533	140.641395
##	[7663]	140.063591	139.413777	139.193496	138.974423	138.804448	138.798289
##	[7669]	138.864168	139.186637	139.333739	139.476134	139.269908	139.137995
##	[7675]	138.665905	138.165490	138.059439	138.406499	139.493190	140.708841
##	[7681]	141.237535	141.422009	141.058413	141.469403	142.106226	143.009268
##	[7687]	143.413761	142.774666	141.714358	140.801324	140.284523	140.204111
##	[7693]	140.017993	139.787007	139.090416	137.542860	135.720874	135.342845
##	[7699]	134.537668	133.621821	133.639300	133.403473	132.716350	132.628652
##	[7705]	132.772128	132.862827	132.506396	131.244517	130.565832	130.297961
##	[7711]	128.717696	126.429836	124.314256	123.515821	123.352792	122.578256
##	[7717]	121.937277	121.443228	120.941850	120.685897	120.321622	119.610029
##	[7723]	118.338591	117.039463	116.240366	115.761825	115.241834	115.336073
##	[7729]	114.667904	113.378957	112.181551	111.675436	111.437697	111.112161
##	[7735]	111.086845	110.834427	110.600010	109.948679	109.258534	109.037780
##	[7741]	108.168025	107.574471	107.373521	107.375409	107.373161	107.309226
##	[7747]	107.186589	107.044546	107.085259	105.586748	103.629119	103.112780
##	[7753]	100.345228	97.624348	95.413179	93.373008	91.709367	90.737719
##	[7759]	90.246442	88.968679	87.352332	85.783229	84.733300	83.985768
##	[7765]	83.366325	82.603311	82.079713	81.653527	80.993100	80.132690
##	[7771]	79.593651	79.626654	79.247830	79.053972	78.551960	77.515433
##	[7777]	76.750967	76.689055	76.282087	75.394166	74.255935	73.019447
##	[7783]	71.972410	70.975454	70.423714	70.297566	69.758336	69.554564
##	[7789]	68.812697	66.749724	63.795936	60.958798	58.724641	57.179868
##	[7795]	56.608385	56.354965	55.240529	53.528414	52.213294	51.664735
##	[7801]	51.630626	51.507094	50.664394	49.361732	48.310518	47.644584
##	[7807]	47.418232	46.244269	44.955624	44.116539	44.127864	42.110029

##	[7813]	40.693192	40.283776	40.185184	40.152656	39.774990	39.378163
##	[7819]	39.265181	39.027917	38.735386	38.610386	37.890422	37.314241
##	[7825]	36.937220	35.680330	34.522437	33.944781	33.942883	33.752686
##	[7831]	33.614960	33.454222	32.389284	31.434337	31.357545	30.658228
##	[7837]	30.072059	29.769687	29.716763	29.514976	29.110576	28.922905
##	[7843]	28.729717	28.060548	27.208883	26.460915	26.055421	26.030446
##	[7849]	25.996219	25.775506	25.661954	25.620393	25.275421	24.912394
##	[7855]	24.744679	24.770462	24.658824	24.407747	24.360799	24.212520
##	[7861]	24.072754	24.029525	23.897400	23.742584	23.738773	23.618587
##	[7867]	23.524158	23.520095	23.513471	23.265408	22.514495	21.890195
##	[7873]	21.440420	21.435571	21.021476	20.612678	20.343806	20.130108
##	[7879]	19.540477	18.390505	17.155066	16.468009	16.222065	16.185247
##	[7885]	15.757067	15.071550	14.066538	12.898484	11.790839	10.812738
##	[7891]	10.187737	9.816866	9.638413	9.517667	9.442066	9.420302
##	[7897]	9.391222	9.278791	9.117344	8.919117	8.930747	8.790352
##	[7903]	8.361341	7.835951	7.425615	7.154147	6.931666	6.686903
##	[7909]	6.409997	6.175080	5.955379	5.743573	5.551757	5.401668
##	[7915]	5.283154	5.177664	5.098131	5.046031	5.001012	4.964950
##	[7921]	4.952382	4.980463	4.976028	4.979230	4.972471	4.951161
##	[7927]	4.875356	4.780595	4.698264	4.607760	4.519707	4.441549
##	[7933]	4.338811	4.257922	4.173724	4.119725	4.085198	4.030400
##	[7939]	3.949630	3.881180	3.811743	3.737238	3.664186	3.606351
##	[7945]	3.530442	3.450513	3.401116	3.336970	3.310643	3.272062
##	[7951]	3.303578	3.265646	3.257913	3.246368	3.257735	3.255485
##	[7957]	3.272392	3.271225	3.267536	3.236494	3.230164	3.212626
##	[7963]	3.203563	3.189714	3.186656	3.183548	3.174462	3.141086
##	[7969]	3.127896	3.095769	3.061015	3.029637	2.984011	2.958974
##	[7975]	2.947956	2.916871	2.886283	2.860773	2.830687	2.796882
##	[7981]	2.772258	2.737408	2.730038	2.766072	2.729649	2.738941
##	[7987]	2.720528	2.707498	2.706138	2.705158	2.691616	2.690841
##	[7993]	2.699007	2.677531	2.673398	2.661904	2.651618	2.656579
##	[7999]	2.652903	2.654732	2.651277	2.651940	2.661395	2.657295
##	[8005]	2.647996	2.647788	2.641339	2.608906	2.582332	2.585706
##	[8011]	2.597982	2.593689	2.578588	2.570636	2.566731	2.541600
##	[8017]	2.563301	2.564033	2.592395	2.588454	2.593396	2.594642
##	[8023]	2.570358	2.581704	2.590867	2.545592	2.546838	2.518087
##	[8029]	2.487172	2.480658	2.473414	2.453536	2.469386	2.468579
##	[8035]	2.469041	2.467133	2.443176	2.438555	2.433596	2.435435
##	[8041]	2.437986	2.432125	2.441267	2.435438	2.425628	2.430206
##	[8047]	2.430229	2.453002	2.442861	2.440203	2.439779	2.408645
##	[8053]	2.404188	2.407252	2.415701	2.428985	2.398244	2.370841
##	[8059]	2.387078	2.376707	2.362282	2.366912	2.368366	2.367158
##	[8065]	2.355069	2.339223	2.340574	2.333134	2.345848	2.360054
##	[8071]	2.359698	2.378767	2.377359	2.359522	2.349272	2.345146
##	[8077]	2.337598	2.324504	2.308927	2.308690	2.314521	2.313215
##	[8083]	2.289750	2.277897	2.278302	2.279367	2.267992	2.260564
##	[8089]	2.259431	2.247981	2.265039	2.239503	2.247142	2.230819
##	[8095]	2.234437	2.227779	2.217254	2.227305	2.253017	2.252873
##	[8101]	2.240400	2.239700	2.237951	2.230177	2.263071	2.267137
##	[8107]	2.267585	2.265292	2.286583	2.308914	2.314176	2.323837
##	[8113]	2.319367	2.343568	2.359055	2.372118	2.383460	2.383079
##	[8119]	2.361155	2.402633	2.641802	2.736521	2.724046	2.903505
##	[8125]	3.115495	3.323803	3.456911	3.581505	3.601450	3.600128
##	[8131]	3.622286	3.633149	3.933089	4.472954	4.695874	5.070087

##	[8137]	5.796937	6.345801	6.728830	8.228595	9.523340	10.019506
##	[8143]	10.246091	10.790415	11.517600	12.204524	12.876504	13.484617
##	[8149]	13.649986	13.807813	13.852919	14.119075	14.611776	15.032535
##	[8155]	15.016124	15.280799	15.614448	15.944987	16.432236	16.992260
##	[8161]	18.138201	19.366370	20.040098	20.545795	20.651516	20.811292
##	[8167]	21.529925	22.703968	23.998053	24.920359	25.359783	25.382189
##	[8173]	25.714820	26.061206	26.585132	27.306820	28.214449	28.319472
##	[8179]	29.204633	30.207774	31.015948	31.634326	32.069553	32.296273
##	[8185]	32.412645	32.567683	33.218218	33.575322	33.954298	35.117782
##	[8191]	36.267108	36.625190	38.109316	40.993158	43.400930	43.442693
##	[8197]	44.655209	45.776617	46.408766	47.052517	47.761679	47.983580
##	[8203]	48.398689	49.070672	49.766767	50.496777	51.539871	52.783050
##	[8209]	53.814949	54.371627	54.787465	55.114998	55.182963	56.037411
##	[8215]	57.627653	59.460653	60.813993	62.037449	63.008333	63.620996
##	[8221]	64.095017	64.087774	65.518236	66.849041	66.866821	67.635554
##	[8227]	67.926619	68.659992	70.094346	71.648468	72.879198	74.407712
##	[8233]	76.304465	78.185656	78.233288	80.677830	84.964211	89.153369
##	[8239]	91.797207	92.790453	93.228142	94.295180	95.875924	97.605397
##	[8245]	98.699190	98.775939	98.834209	99.014239	99.267327	99.860708
##	[8251]	100.392955	100.644620	100.782453	100.880620	100.918181	101.230371
##	[8257]	102.017612	102.837240	103.234119	103.256773	103.728025	103.767060
##	[8263]	104.423831	105.136869	105.821945	106.500617	107.183130	107.442604
##	[8269]	107.636873	108.005917	108.547608	109.245698	110.107517	110.923021
##	[8275]	111.375723	111.631486	112.115910	112.931288	113.656590	114.071868
##	[8281]	115.435797	116.834385	116.972513	117.114468	117.444727	118.082834
##	[8287]	118.293800	119.033155	119.946447	120.524044	120.548993	121.003009
##	[8293]	121.448013	121.440275	121.871901	122.516110	122.585882	122.897815
##	[8299]	123.146760	123.439953	123.755405	125.154823	125.678010	126.213031
##	[8305]	127.117115	127.394162	128.363726	129.306358	129.589347	130.905755
##	[8311]	132.208749	133.078297	133.469925	133.638415	134.391251	135.591112
##	[8317]	136.777745	137.729246	138.512170	139.121163	139.389214	139.178982
##	[8323]	139.420885	139.966751	140.277377	140.212158	140.119015	140.090832
##	[8329]	139.966537	140.030924	140.238314	140.386916	140.509943	140.214977
##	[8335]	140.080159	140.414334	140.118469	139.832622	140.167062	140.807448
##	[8341]	140.096994	139.109381	138.697432	138.552229	138.132518	137.756959
##	[8347]	137.511746	136.846647	136.639356	136.714566	136.559901	136.539579
##	[8353]	136.253951	135.776678	135.463105	135.608541	135.516202	135.221084
##	[8359]	134.980045	134.832480	134.772261	134.601207	134.398172	134.281496
##	[8365]	133.772399	133.948300	134.061626	133.689464	132.854718	132.029750
##	[8371]	131.680623	131.714361	131.879890	131.916212	131.856488	131.707390
##	[8377]	131.199235	130.569048	130.806890	130.252490	129.551780	128.940807
##	[8383]	128.467930	128.223422	128.161104	128.183846	128.113738	127.477407
##	[8389]	127.161545	126.918437	125.970181	125.029941	124.844283	123.517023
##	[8395]	120.755655	118.426578	118.510712	117.451473	116.480803	115.994230
##	[8401]	115.563063	115.099054	115.106563	114.933845	114.424504	113.891377
##	[8407]	113.266503	112.341689	111.139299	110.131366	109.570484	109.137983
##	[8413]	108.823739	108.764523	107.906769	106.310647	104.506759	103.166964
##	[8419]	101.941318	101.027775	100.427075	100.001899	100.047864	98.696479
##	[8425]	97.398280	97.426491	96.688499	96.465443	95.784943	94.435679
##	[8431]	92.983415	91.844946	90.371628	88.500665	86.653930	86.643964
##	[8437]	84.195854	79.945043	75.795026	73.200593	72.213721	71.838672
##	[8443]	70.823046	69.300022	67.611786	66.532342	66.461945	66.397528
##	[8449]	66.234503	65.967246	65.407222	64.883620	64.644021	64.502447
##	[8455]	64.421119	64.369786	64.058155	63.266034	62.458947	62.111655

##	[8461]	62.127233	61.696588	61.655119	61.033542	60.331984	59.662510
##	[8467]	59.007280	58.345597	58.111482	57.950348	57.579937	57.045330
##	[8473]	56.356594	55.471375	54.688932	54.245319	54.026978	53.574638
##	[8479]	52.794736	52.071321	51.659108	50.312971	48.899640	48.787631
##	[8485]	48.650809	48.345031	47.706854	47.501279	46.765200	45.863498
##	[8491]	45.305323	45.267840	44.817198	44.384580	44.392202	43.966155
##	[8497]	43.317753	43.270587	42.965169	42.701513	42.393728	42.082840
##	[8503]	40.683456	40.144739	39.605927	38.703776	38.392388	37.424595
##	[8509]	36.510578	36.245118	34.899964	33.569555	32.698255	32.307376
##	[8515]	32.132422	31.374004	30.173832	28.966964	28.009907	27.219380
##	[8521]	26.623308	26.308381	26.279676	25.942276	25.403214	24.903748
##	[8527]	24.766634	24.640411	24.513156	24.517146	24.449684	24.234064
##	[8533]	24.066335	23.944274	23.953776	23.547073	22.998311	22.921347
##	[8539]	22.492147	21.614191	20.586235	19.830482	19.516457	19.443305
##	[8545]	19.349682	19.236278	18.896316	18.471363	18.478955	18.062639
##	[8551]	17.813666	17.814617	17.797750	17.793389	17.826947	17.741235
##	[8557]	17.617874	17.444461	17.385877	17.304207	16.981043	16.477490
##	[8563]	15.512244	14.484922	13.918629	13.918411	13.654567	13.421952
##	[8569]	13.102490	12.770363	12.300946	11.729714	11.288736	11.121328
##	[8575]	10.766557	10.479983	10.099574	9.904470	9.645279	9.284167
##	[8581]	8.956924	8.662354	8.485066	8.324907	8.160021	7.986995
##	[8587]	7.835469	7.778271	7.760815	7.711626	7.590746	7.350389
##	[8593]	7.137346	6.964146	6.813476	6.707007	6.659303	6.544193
##	[8599]	6.389561	6.238044	6.083738	5.880703	5.642274	5.394764
##	[8605]	5.149257	4.971220	4.825682	4.709018	4.596115	4.562640
##	[8611]	4.543892	4.549938	4.558605	4.539404	4.523921	4.542805
##	[8617]	4.554407	4.542593	4.568019	4.563447	4.514837	4.490710
##	[8623]	4.462198	4.468187	4.389405	4.385217	4.321680	4.278328
##	[8629]	4.228084	4.172272	4.103444	4.003386	3.911498	3.849060
##	[8635]	3.825345	3.794358	3.762236	3.765581	3.725437	3.689335
##	[8641]	3.642468	3.631165	3.555516	3.508963	3.452860	3.413898
##	[8647]	3.417883	3.411184	3.423773	3.413068	3.411958	3.401944
##	[8653]	3.400168	3.397630	3.412776	3.409154	3.416140	3.428536
##	[8659]	3.421914	3.408590	3.359026	3.317041	3.278596	3.258426
##	[8665]	3.217096	3.205590	3.181293	3.158963	3.136705	3.103445
##	[8671]	3.078246	3.069940	3.048030	3.040333	3.057169	3.033281
##	[8677]	3.015411	2.989332	3.001950	2.973483	2.988264	3.032013
##	[8683]	3.059754	3.059822	3.030442	3.027408	3.003115	3.026480
##	[8689]	3.021805	3.020893	3.012866	3.011169	3.034196	3.023946
##	[8695]	3.013212	2.997939	2.982853	2.980826	2.958941	2.972730
##	[8701]	2.971017	2.955294	2.946533	2.951830	2.980440	2.984041
##	[8707]	3.042087	3.035195	3.057039	3.029161	3.011016	3.057608
##	[8713]	3.080617	3.078433	3.061125	3.072295	3.046478	3.026369
##	[8719]	3.044747	3.045448	3.044076	3.039253	3.022916	3.025491
##	[8725]	3.007997	2.981073	2.991655	3.002248	3.000724	3.000038
##	[8731]	2.999128	2.997190	3.025104	3.064349	3.068369	3.049812
##	[8737]	3.050142	3.042046	3.033500	3.031134	3.033606	3.035285
##	[8743]	3.008271	3.014521	3.020127	3.021485	3.001074	2.991342
##	[8749]	3.000739	2.991185	3.017015	3.027544	3.054655	3.071553
##	[8755]	3.050143	3.008399	2.990886	2.961810	2.968162	2.972541
##	[8761]	2.948076	2.944035	2.948840	2.946806	2.951804	2.950032
##	[8767]	2.978327	2.961077	2.926550	2.910318	2.899911	2.890011
##	[8773]	2.890620	2.856500	2.832442	2.825772	2.818519	2.827131
##	[8779]	2.813881	2.817363	2.846569	2.853885	2.849451	2.824629

##	[8785]	2.824591	2.806379	2.816322	2.811553	2.784509	2.775428
##	[8791]	2.770692	2.756700	2.754784	2.740730	2.758441	2.762851
##	[8797]	2.748550	2.718220	2.713272	2.716400	2.719343	2.719597
##	[8803]	2.704730	2.701775	2.735284	2.735726	2.757306	2.744295
##	[8809]	2.761885	2.752862	2.761433	2.765937	2.810858	2.834473
##	[8815]	2.836075	2.993447	3.074235	3.063349	3.149435	3.258678
##	[8821]	3.419846	3.512113	3.571120	3.629818	3.691718	3.759276
##	[8827]	3.781913	3.793619	3.836541	4.006283	4.632145	5.606224
##	[8833]	6.133344	6.360527	7.131898	8.144109	9.038379	9.666587
##	[8839]	9.990332	10.142216	10.264931	10.634962	11.064181	11.449267
##	[8845]	11.792068	11.951598	12.173521	12.613463	13.047830	13.033277
##	[8851]	13.477405	13.876979	14.230884	14.445401	14.591398	15.053131
##	[8857]	15.608603	15.914588	16.328567	16.805593	16.951594	17.420373
##	[8863]	17.950852	18.786717	19.980289	21.607539	22.668272	23.042246
##	[8869]	23.123415	23.511710	24.150650	24.664711	24.681641	25.968973
##	[8875]	29.631171	34.222461	36.923519	37.413455	39.886101	42.781077
##	[8881]	45.059282	46.410318	46.677925	46.840227	47.250610	47.376578
##	[8887]	47.667373	48.163197	48.357133	49.515939	50.194819	50.534401
##	[8893]	51.133621	51.552890	52.079796	52.623303	52.828006	53.270102
##	[8899]	54.504091	56.209695	57.500818	57.990336	58.126518	58.133458
##	[8905]	58.255227	59.177734	61.194726	62.819736	63.408565	63.735588
##	[8911]	64.893441	66.443567	68.699714	70.954636	72.274924	73.399210
##	[8917]	74.341926	74.999630	75.507167	76.259624	77.011657	78.176994
##	[8923]	78.575626	79.061298	80.009446	80.866096	81.735667	82.358703
##	[8929]	82.493302	82.510122	82.898600	83.498548	84.153721	84.561026
##	[8935]	84.600591	85.044094	85.762854	86.197908	86.555150	87.534657
##	[8941]	88.270830	88.419463	88.902258	89.367168	89.382236	89.531171
##	[8947]	89.739945	89.960637	91.380479	93.315302	94.273490	94.894045
##	[8953]	96.347268	97.883371	99.154742	99.831129	100.025870	100.083328
##	[8959]	100.197199	100.724659	101.262067	101.921192	102.521632	102.566874
##	[8965]	103.020292	103.509048	104.116655	104.768658	105.532196	106.229573
##	[8971]	107.080584	107.924166	108.487520	108.969077	109.529582	110.097044
##	[8977]	111.622492	112.591510	113.047723	114.083370	114.722813	114.922625
##	[8983]	116.004933	117.155762	117.919719	118.204981	118.390593	118.920593
##	[8989]	119.485531	119.715530	120.169546	120.766256	121.271136	121.911896
##	[8995]	122.186797	122.524922	123.292962	124.153405	124.960209	125.720071
##	[9001]	126.368196	126.623276	126.948692	127.613186	128.133027	128.306055
##	[9007]	128.475122	128.937075	129.435784	129.843183	130.260612	130.451979
##	[9013]	130.530875	131.098147	132.350082	133.349589	133.483174	133.728929
##	[9019]	134.287940	134.856480	135.421608	135.989524	136.541640	136.941448
##	[9025]	137.250539	137.473861	137.459248	137.963521	138.792407	139.585807
##	[9031]	140.038747	139.980076	139.490758	139.298797	139.461482	138.913916
##	[9037]	137.897107	136.985124	136.377062	136.111372	136.394279	137.001095
##	[9043]	137.559170	138.004726	138.273893	138.083557	138.494075	138.895134
##	[9049]	138.819095	138.469731	138.727753	138.692226	138.678437	138.469822
##	[9055]	138.316012	138.181302	137.818860	137.429679	137.308215	137.084955
##	[9061]	136.795096	136.911870	136.669443	136.265754	135.431602	134.288026
##	[9067]	132.675194	131.603498	131.233581	131.182691	130.807934	130.239717
##	[9073]	129.813754	129.901835	128.702438	125.112348	120.791977	118.487819
##	[9079]	118.356032	116.086054	113.230654	110.943860	109.667595	109.520839
##	[9085]	109.556840	109.382497	109.480930	109.377822	109.053155	108.979153
##	[9091]	107.933738	107.357509	107.068955	106.496275	106.100834	105.569765
##	[9097]	105.028504	104.852733	104.452538	103.252278	101.587681	100.337257
##	[9103]	99.953014	99.881001	99.963453	99.932103	99.060722	97.102266

##	[9109]	95.497692	94.961947	94.669560	93.576634	92.110271	89.837378
##	[9115]	87.626582	86.395732	85.323171	84.419049	83.810159	83.328440
##	[9121]	82.577759	81.835791	80.681356	80.311162	79.827180	78.887967
##	[9127]	78.031485	77.182523	76.596367	76.482864	76.470026	76.102648
##	[9133]	75.549131	74.944600	74.546884	74.490412	74.058956	73.357429
##	[9139]	72.936263	72.616640	71.651633	70.909620	70.813427	70.345445
##	[9145]	69.872767	69.864565	69.708077	69.535228	69.325668	67.931843
##	[9151]	65.991918	65.048819	64.430849	63.004264	61.429381	60.137081
##	[9157]	59.480801	59.271883	59.209960	59.112656	58.569837	58.042067
##	[9163]	57.398357	56.787953	56.734869	56.304768	55.797135	55.205101
##	[9169]	54.548539	53.782773	53.101706	52.277500	51.437699	50.890295
##	[9175]	50.418355	49.871134	49.323308	47.787076	46.812609	46.348812
##	[9181]	45.318039	44.662673	44.448615	43.367580	42.241192	41.504443
##	[9187]	41.231080	41.034330	40.503396	39.941074	39.727985	39.269898
##	[9193]	38.697825	38.200309	37.592663	37.354841	37.002111	36.252053
##	[9199]	35.397972	34.594780	33.834931	33.204450	32.940342	32.611455
##	[9205]	31.996384	31.474199	31.284745	31.128749	30.652862	30.159429
##	[9211]	29.733087	29.320164	29.128132	29.062008	28.448867	27.166977
##	[9217]	26.164095	25.909440	25.562453	25.017304	24.360504	23.675305
##	[9223]	22.962632	22.304136	21.868639	21.489621	21.189082	21.131445
##	[9229]	20.569788	19.741703	18.896382	18.290746	17.734563	17.240183
##	[9235]	16.948321	16.580410	16.383315	16.388736	16.397662	16.387371
##	[9241]	16.329529	15.926308	15.200964	14.270181	13.416107	12.778408
##	[9247]	12.619457	12.071912	11.470427	11.111316	11.031500	10.779606
##	[9253]	10.390547	10.014155	9.887009	9.834745	9.847090	9.742616
##	[9259]	9.605351	9.423877	9.219275	9.038506	8.802122	8.575090
##	[9265]	8.446288	8.476339	8.434183	8.427997	8.467294	8.489275
##	[9271]	8.479661	8.492294	8.431856	8.382083	8.298908	8.262962
##	[9277]	8.204725	7.938411	7.538289	7.182052	6.983040	6.917568
##	[9283]	6.962174	6.891901	6.746641	6.524646	6.323021	6.092883
##	[9289]	5.929834	5.780625	5.642319	5.564882	5.489224	5.461739
##	[9295]	5.416553	5.369360	5.380200	5.388901	5.362605	5.331103
##	[9301]	5.312182	5.305691	5.250410	5.175055	5.141341	5.099458
##	[9307]	5.046458	4.980487	4.916860	4.842352	4.779193	4.725023
##	[9313]	4.692389	4.602571	4.576066	4.513036	4.421128	4.385297
##	[9319]	4.328964	4.274467	4.247848	4.230754	4.221695	4.226048
##	[9325]	4.190279	4.194912	4.207091	4.221474	4.263079	4.235275
##	[9331]	4.185518	4.188996	4.192966	4.170167	4.131056	4.096846
##	[9337]	4.066466	4.042526	4.017613	3.996346	3.973027	3.960998
##	[9343]	3.960554	3.925686	3.902629	3.903315	3.896349	3.879446
##	[9349]	3.844746	3.843037	3.813848	3.802163	3.787425	3.788256
##	[9355]	3.779285	3.789299	3.799768	3.784399	3.788945	3.834511
##	[9361]	3.831318	3.825453	3.851343	3.861580	3.885411	3.930659
##	[9367]	3.918427	3.927195	3.928939	3.900375	3.912085	3.895881
##	[9373]	3.892627	3.907938	3.941904	3.956310	3.955118	3.980747
##	[9379]	3.995114	4.002875	4.011357	4.024463	4.063531	4.072374
##	[9385]	4.087872	4.107911	4.087246	4.083916	4.091347	4.083571
##	[9391]	4.063072	4.048005	4.044968	4.018610	4.011851	3.980183
##	[9397]	3.972095	4.017016	4.009653	3.996667	3.991976	4.016372
##	[9403]	4.035885	4.055843	4.057485	4.036841	4.052004	4.037035
##	[9409]	4.023060	4.020311	4.013149	4.015868	4.004304	4.008289
##	[9415]	4.015327	4.007764	4.015392	4.042545	4.022425	4.029366
##	[9421]	4.032723	4.043862	4.030188	4.019788	4.034130	4.007122
##	[9427]	4.042228	4.040856	4.072311	4.105251	4.131042	4.146145

##	[9433]	4.131114	4.129832	4.137665	4.097199	4.090504	4.101375
##	[9439]	4.121245	4.108515	4.106372	4.169161	4.171082	4.209245
##	[9445]	4.225681	4.209505	4.199714	4.211190	4.225591	4.246187
##	[9451]	4.257850	4.292734	4.318070	4.309093	4.313158	4.279184
##	[9457]	4.269594	4.244614	4.239731	4.223824	4.220502	4.230930
##	[9463]	4.228317	4.242276	4.301429	4.343548	4.326051	4.328295
##	[9469]	4.357720	4.328457	4.320270	4.315143	4.295156	4.301314
##	[9475]	4.273303	4.259147	4.225565	4.211857	4.195621	4.191765
##	[9481]	4.190994	4.181862	4.192310	4.160445	4.149048	4.135859
##	[9487]	4.131491	4.098268	4.110691	4.126941	4.122170	4.097792
##	[9493]	4.066430	4.044011	4.025104	4.035946	4.078246	4.061541
##	[9499]	4.053496	4.052951	4.051980	4.045817	4.031211	4.031837
##	[9505]	4.019783	3.996798	3.953137	3.925568	3.919988	3.928355
##	[9511]	3.925576	3.930545	3.937011	3.903997	3.932994	3.929549
##	[9517]	3.982068	4.056227	4.213099	4.533640	4.705311	4.702902
##	[9523]	4.954084	5.283468	5.490919	5.538660	5.703139	5.712793
##	[9529]	5.784803	5.880927	5.978746	6.150864	6.229096	6.579228
##	[9535]	7.228300	7.832683	8.199931	8.206646	8.508959	9.088206
##	[9541]	9.497371	9.739136	9.754699	9.864280	9.969664	10.016974
##	[9547]	10.057843	10.200252	10.687182	11.482990	12.058182	12.446401
##	[9553]	13.319724	14.003326	14.456584	14.519758	14.652404	14.653486
##	[9559]	15.156281	15.895413	16.231652	16.422362	17.333918	18.574662
##	[9565]	19.758525	20.619962	20.646798	21.524682	22.741470	23.872899
##	[9571]	24.967076	25.821994	25.956588	26.562813	26.924473	27.336430
##	[9577]	28.142705	29.048413	29.697284	29.923706	30.090896	30.676739
##	[9583]	31.280811	32.272123	33.838127	34.483616	34.508543	35.627195
##	[9589]	37.599848	39.618928	41.470080	43.067410	43.933357	44.459787
##	[9595]	45.761389	46.951371	47.580809	48.051510	48.600078	49.364349
##	[9601]	49.911722	49.948369	49.920327	50.270917	50.916614	52.183700
##	[9607]	53.983553	56.036497	57.425228	58.345957	58.664320	59.235056
##	[9613]	60.867841	62.856887	64.535696	65.897064	66.897968	67.884227
##	[9619]	68.661825	69.104474	69.437184	69.504485	70.116789	70.892505
##	[9625]	71.042405	71.506384	72.972401	74.263957	74.325328	74.989914
##	[9631]	75.668620	76.135612	76.419316	76.861649	78.125112	78.450826
##	[9637]	79.421248	81.099263	81.598408	82.200019	83.029459	83.073306
##	[9643]	83.935342	84.547444	84.590190	85.182575	85.726049	86.523699
##	[9649]	87.490219	88.373509	89.046844	89.678934	90.176345	90.757196
##	[9655]	91.153323	91.742333	92.795383	93.706369	93.840406	94.514560
##	[9661]	95.566081	96.473251	97.089979	97.366688	97.610410	98.538738
##	[9667]	100.149949	101.783351	102.207982	102.481517	102.473077	102.775812
##	[9673]	103.379686	103.906475	104.353079	104.557865	106.449016	108.473044
##	[9679]	109.671960	109.710815	110.590000	111.820034	113.052651	114.040536
##	[9685]	114.669246	115.025568	115.060962	115.252645	115.656595	116.316198
##	[9691]	117.090845	117.937659	118.836275	119.704373	120.541420	121.228398
##	[9697]	121.929168	122.540210	123.004566	123.127477	123.340525	123.842914
##	[9703]	124.359121	124.790692	125.194761	125.569264	125.933670	126.296513
##	[9709]	126.637519	126.845584	127.009085	127.166029	127.332220	127.480318
##	[9715]	127.628677	127.742800	127.814493	127.799496	127.723205	127.584299
##	[9721]	127.393789	127.302969	127.474347	127.447951	127.119950	127.139653
##	[9727]	127.636973	127.725497	127.861609	128.134282	128.515074	128.935409
##	[9733]	129.162458	129.115145	128.942847	128.620477	128.306669	128.205748
##	[9739]	128.484884	128.399275	127.949955	127.545293	127.319783	127.304325
##	[9745]	127.252086	127.203692	127.277611	127.302434	127.211020	126.824024
##	[9751]	126.112186	125.560439	125.214146	124.361897	123.712107	123.265914

##	[9757]	123.218860	123.103545	123.122644	122.634299	121.906515	121.532427
##	[9763]	121.355903	120.468911	119.231170	118.065732	117.252743	117.227660
##	[9769]	116.373836	115.145942	113.987289	112.911040	112.079784	111.951060
##	[9775]	111.355247	111.025442	110.613802	109.849863	108.961589	108.307104
##	[9781]	108.119354	107.989448	107.456777	106.875033	105.843495	104.260035
##	[9787]	103.597346	103.525281	102.437877	100.498531	98.479880	96.627916
##	[9793]	95.024723	94.192069	93.670180	92.366524	91.187207	90.553549
##	[9799]	90.059875	89.463744	88.711777	88.193297	88.177438	88.206545
##	[9805]	87.821495	87.189855	85.923589	84.099295	82.026023	80.655297
##	[9811]	79.769294	79.470340	78.946253	77.344993	75.405606	73.712636
##	[9817]	72.331367	71.366606	70.384351	69.595414	69.161030	68.831309
##	[9823]	68.745182	68.117098	67.337156	67.187686	66.714565	65.242373
##	[9829]	63.913114	63.848812	63.164754	62.468124	61.975619	61.687444
##	[9835]	61.246454	59.999308	59.661710	58.686314	57.006622	56.477206
##	[9841]	55.853119	55.039552	54.978426	54.049280	53.403229	53.342532
##	[9847]	52.747040	52.238958	51.439452	50.483132	49.592717	48.886105
##	[9853]	48.236528	47.695852	47.104715	46.676080	46.060304	45.015689
##	[9859]	44.107456	43.993319	43.329498	42.271545	41.389488	40.776649
##	[9865]	40.499446	40.272593	39.316748	37.679188	36.040623	35.647587
##	[9871]	35.363248	35.385882	35.099092	34.516844	33.989486	33.562708
##	[9877]	33.342592	31.462351	29.473680	28.316180	28.305813	27.423793
##	[9883]	26.194805	24.957423	23.943076	23.311315	22.939529	22.902775
##	[9889]	22.693495	22.290938	21.627157	20.815844	19.970858	19.076765
##	[9895]	18.225406	17.387810	16.713815	16.014924	15.367745	14.915092
##	[9901]	14.808369	14.632053	14.146886	13.622889	13.193023	12.801803
##	[9907]	12.428700	12.075557	11.713430	11.356016	11.144282	10.971503
##	[9913]	10.808953	10.657741	10.496988	10.376647	10.237978	10.177445
##	[9919]	10.152514	10.173255	10.155805	10.024372	9.946985	9.786821
##	[9925]	9.563224	9.561681	9.326225	8.781123	8.540324	8.375293
##	[9931]	8.028439	7.523661	6.996677	6.609899	6.589882	6.391073
##	[9937]	6.035576	5.722868	5.451385	5.158748	4.944468	4.837532
##	[9943]	4.834281	4.824974	4.844996	4.792583	4.715379	4.603040
##	[9949]	4.544600	4.497810	4.399805	4.334877	4.342473	4.331470
##	[9955]	4.315569	4.275047	4.256600	4.221106	4.195078	4.155540
##	[9961]	4.136188	4.122904	4.128897	4.119413	4.100523	4.068575
##	[9967]	4.039540	3.982073	3.938400	3.914280	3.922199	3.915388
##	[9973]	3.902970	3.869222	3.854013	3.811804	3.759595	3.709144
##	[9979]	3.647737	3.648691	3.626942	3.579183	3.542902	3.489900
##	[9985]	3.431448	3.427262	3.425663	3.429459	3.433947	3.418267
##	[9991]	3.381157	3.395655	3.409760	3.424232	3.399907	3.403948
##	[9997]	3.406231	3.425778	3.431923	3.427280	3.434252	3.406374
##	[10003]	3.378761	3.365118	3.332397	3.325241	3.309752	3.313199
##	[10009]	3.303242	3.305525	3.282372	3.249703	3.229538	3.196519
##	[10015]	3.161389	3.109100	3.122496	3.116683	3.100811	3.091839
##	[10021]	3.080203	3.071065	3.086604	3.107680	3.115147	3.177374
##	[10027]	3.162193	3.179799	3.171498	3.180383	3.174958	3.158625
##	[10033]	3.151569	3.134562	3.132123	3.116836	3.088076	3.082870
##	[10039]	3.091963	3.087373	3.075441	3.096546	3.079805	3.103825
##	[10045]	3.111561	3.124659	3.125992	3.142633	3.148015	3.139556
##	[10051]	3.130679	3.100773	3.085834	3.078261	3.107308	3.094863
##	[10057]	3.099080	3.103196	3.112150	3.113391	3.095662	3.120525
##	[10063]	3.099998	3.096973	3.088082	3.074949	3.059166	3.066518
##	[10069]	3.048550	3.044723	3.003314	3.006719	2.998184	2.979376
##	[10075]	2.942503	2.944735	2.914924	2.924566	2.898502	2.853843



## [10081]	2.826699	2.811212	2.821741	2.845592	2.840215	2.836492
## [10087]	2.838004	2.869142	2.864312	2.862485	2.858910	2.850599
## [10093]	2.851056	2.847194	2.846851	2.832967	2.876870	2.871262
## [10099]	2.857971	2.861126	2.852823	2.860896	2.844265	2.824200
## [10105]	2.838198	2.830537	2.824537	2.824352	2.806904	2.806682
## [10111]	2.816780	2.834705	2.838301	2.858245	2.837817	2.840264
## [10117]	2.825016	2.831921	2.826889	2.844530	2.829253	2.821200
## [10123]	2.824472	2.829805	2.828055	2.826257	2.830935	2.823179
## [10129]	2.824965	2.802029	2.805825	2.806917	2.805760	2.817533
## [10135]	2.848801	2.850206	2.858671	2.862679	2.872274	2.875233
## [10141]	2.876937	2.876593	2.866579	2.877335	2.861888	2.862045
## [10147]	2.870551	2.877008	2.903771	2.902038	2.900658	2.921633
## [10153]	2.933153	2.896127	2.889118	2.887289	2.889505	2.872451
## [10159]	2.862257	2.867633	2.870051	2.869048	2.882266	2.864178
## [10165]	2.863176	2.876291	2.874304	2.856141	2.834539	2.824092
## [10171]	2.830181	2.831274	2.834380	2.840834	2.849415	2.847874
## [10177]	2.857642	2.861248	2.873237	2.891384	2.865979	2.864799
## [10183]	2.869281	2.860753	2.864545	2.878922	2.911753	2.911141
## [10189]	2.899381	2.893969	2.877724	2.931479	2.994422	3.079240
## [10195]	3.212747	3.389970	3.480584	3.492427	3.522534	3.657131
## [10201]	3.775201	3.863695	3.905851	3.956411	4.024519	4.194552
## [10207]	4.431987	4.540319	4.688064	4.884583	5.019511	5.133849
## [10213]	5.185752	5.207456	5.232506	5.426120	5.554522	5.575731
## [10219]	5.676878	5.784862	6.131603	6.400110	6.524775	6.853972
## [10225]	7.772480	8.301685	8.695905	10.153247	12.041315	13.805899
## [10231]	14.974205	14.994601	15.642281	16.318186	16.724884	16.894902
## [10237]	17.151325	17.506572	18.367548	19.327443	20.499137	21.291769
## [10243]	21.638343	21.671756	21.762760	21.986945	22.211976	22.346573
## [10249]	22.757034	22.740238	23.722538	25.450296	27.294460	27.942644
## [10255]	28.206833	28.319733	28.495848	28.853097	29.470712	30.034666
## [10261]	30.774932	32.189597	33.252260	33.441205	34.408195	35.398236
## [10267]	36.849171	38.498936	39.404576	39.703716	39.983607	40.053983
## [10273]	41.197724	42.943803	44.160728	44.334190	45.015343	46.164460
## [10279]	47.345867	48.051650	48.289813	48.507927	49.156457	50.178734
## [10285]	51.240272	52.572462	53.990797	55.111684	55.587632	55.708293
## [10291]	56.379165	56.538718	57.662385	58.494821	58.796021	59.916514
## [10297]	61.336283	62.206134	62.778162	63.277942	63.634324	63.833017
## [10303]	63.961244	64.082296	66.297923	68.455150	68.582732	70.804266
## [10309]	73.662762	75.976859	77.256598	77.779956	77.842539	78.960216
## [10315]	80.340223	80.802212	81.453066	82.399249	82.488213	83.559781
## [10321]	84.829182	85.635490	85.856382	86.030449	86.090136	86.262505
## [10327]	86.567842	86.936670	87.760827	88.257883	88.433645	89.049869
## [10333]	89.507422	89.622469	89.614639	89.737103	90.314833	91.806006
## [10339]	93.469688	94.942293	95.946948	96.312189	96.697691	96.864991
## [10345]	96.921386	97.285246	98.037165	99.321070	100.953899	102.286262
## [10351]	103.650134	105.220326	106.763303	107.949753	108.701021	108.751273
## [10357]	109.853919	111.366239	112.999930	114.219507	114.421041	114.993741
## [10363]	115.868665	116.747973	117.106418	117.197977	117.304881	117.480624
## [10369]	117.518458	118.147297	119.325098	120.245334	121.032044	122.009411
## [10375]	122.654593	122.802155	123.004572	123.060235	123.478347	124.014348
## [10381]	124.381281	124.707869	125.136108	125.374652	125.428068	125.495488
## [10387]	125.663004	125.697581	125.728672	125.737765	125.980306	126.297071
## [10393]	126.529892	126.537535	126.625389	127.022829	127.273702	127.392920
## [10399]	127.527353	127.584911	127.943182	128.476128	128.881243	129.122063

##	[10405]	129.277315	129.649425	130.059180	130.623800	131.534725	131.974186
##	[10411]	131.932552	132.796314	134.295231	135.935117	137.291597	138.053852
##	[10417]	138.422389	138.351893	138.607242	139.078676	139.586642	139.741487
##	[10423]	139.825450	140.008121	139.981063	139.281252	138.864389	138.461634
##	[10429]	137.053471	135.317421	133.734750	132.715503	132.875346	132.421252
##	[10435]	131.928990	131.630978	131.555368	131.347226	130.987445	130.136586
##	[10441]	129.170068	128.018347	127.288873	126.972703	127.051600	127.075728
##	[10447]	127.005228	126.930802	126.907455	126.624792	126.836483	126.108756
##	[10453]	124.467959	122.688012	122.110861	121.846567	121.703798	121.537850
##	[10459]	121.203301	120.582632	119.993153	119.239622	117.822779	116.730638
##	[10465]	116.554731	115.565313	114.570755	113.138686	111.469302	110.565581
##	[10471]	110.262949	109.986312	109.937693	108.772266	107.019119	105.788266
##	[10477]	105.619703	104.937342	103.793400	102.645655	101.977925	101.759899
##	[10483]	101.557313	100.941196	99.941657	98.856432	97.526861	96.147070
##	[10489]	95.061565	94.592296	94.504258	93.863156	93.726296	92.616453
##	[10495]	91.781638	91.464261	90.348409	88.921887	88.021327	87.449424
##	[10501]	86.964379	86.619240	86.418233	86.297793	86.186374	83.988009
##	[10507]	81.809266	81.684685	79.449593	76.582308	74.275957	73.002628
##	[10513]	72.475986	72.460298	71.344559	69.984382	69.520679	68.864055
##	[10519]	67.907734	67.848666	66.802421	65.513245	64.700863	64.471010
##	[10525]	64.295532	64.235432	64.076645	63.801721	63.447606	62.625147
##	[10531]	62.135389	61.968296	61.357661	60.885393	60.760974	60.744483
##	[10537]	60.594816	59.990778	58.492600	56.824864	55.376644	54.380223
##	[10543]	54.015305	53.635639	53.462804	53.394529	53.036000	52.288123
##	[10549]	51.002655	49.349396	47.992846	46.625584	45.058488	43.493717
##	[10555]	42.283346	41.546684	41.495978	40.381693	38.881432	37.256164
##	[10561]	36.059738	35.877376	35.327306	34.506635	33.612773	33.287702
##	[10567]	33.175113	33.079367	32.917279	32.881337	32.281068	31.129159
##	[10573]	30.219968	29.441378	28.475554	27.826994	27.681245	27.487128
##	[10579]	27.457157	27.027027	26.484252	26.088592	25.760853	25.326441
##	[10585]	25.096531	25.065032	25.002612	24.839134	24.774845	24.763507
##	[10591]	24.773627	24.537101	24.222537	23.944359	23.872011	23.707214
##	[10597]	23.182483	22.749447	22.546808	22.409017	22.295574	21.816580
##	[10603]	21.186556	20.690744	20.407926	20.212222	19.810614	19.258600
##	[10609]	18.474462	17.434707	16.841521	16.699133	15.707605	14.096973
##	[10615]	12.403893	11.025915	10.234926	9.687644	9.629285	9.374113
##	[10621]	8.817250	8.183904	7.682146	7.337799	7.053533	6.749606
##	[10627]	6.540351	6.414994	6.369076	6.315769	6.147614	5.978282
##	[10633]	5.818340	5.621765	5.465995	5.272873	5.189419	5.103153
##	[10639]	5.048586	5.053487	5.064382	5.066758	5.037856	4.981714
##	[10645]	4.928109	4.809995	4.669319	4.505295	4.342937	4.207990
##	[10651]	4.057086	3.827568	3.574562	3.510902	3.471733	3.426299
##	[10657]	3.438373	3.441858	3.418876	3.407742	3.410266	3.434836
##	[10663]	3.432411	3.420796	3.423349	3.413610	3.419159	3.418384
##	[10669]	3.412336	3.401943	3.374993	3.388180	3.377957	3.358464
##	[10675]	3.362223	3.364612	3.359849	3.356661	3.349415	3.343079
##	[10681]	3.302657	3.262414	3.231285	3.213437	3.165650	3.136353
##	[10687]	3.156190	3.159430	3.153065	3.108277	3.082556	3.049893
##	[10693]	3.040525	3.053376	3.069530	3.091266	3.093092	3.102707
##	[10699]	3.130598	3.118948	3.122424	3.123669	3.114579	3.113751
##	[10705]	3.083178	3.064627	3.051818	3.070261	3.051546	3.069837
##	[10711]	3.071912	3.064596	3.054155	3.048693	2.981298	3.008137
##	[10717]	2.987621	3.026882	3.044892	3.060609	3.026005	3.004009
##	[10723]	3.014672	3.017414	3.038183	3.079242	3.128363	3.107690

## [10729]	3.092327	3.129038	3.136283	3.163384	3.159397	3.152757
## [10735]	3.166111	3.142215	3.156024	3.153641	3.158303	3.161963
## [10741]	3.181900	3.197338	3.254507	3.295864	3.282221	3.303481
## [10747]	3.326759	3.339997	3.350246	3.380072	3.421120	3.420255
## [10753]	3.417947	3.411020	3.412845	3.428201	3.443450	3.423199
## [10759]	3.428968	3.426928	3.436615	3.413716	3.383898	3.375662
## [10765]	3.325682	3.325612	3.289569	3.291140	3.279173	3.270443
## [10771]	3.275250	3.250624	3.227351	3.194749	3.199459	3.223750
## [10777]	3.223019	3.216162	3.209097	3.171606	3.187674	3.234632
## [10783]	3.229642	3.256026	3.253775	3.254609	3.250986	3.248968
## [10789]	3.271444	3.316475	3.301489	3.289085	3.299441	3.305720
## [10795]	3.292548	3.274165	3.272233	3.274144	3.291887	3.281932
## [10801]	3.281476	3.275145	3.264446	3.244166	3.264139	3.272122
## [10807]	3.266404	3.259159	3.242355	3.231932	3.254023	3.252711
## [10813]	3.242241	3.232996	3.249772	3.253912	3.251936	3.239650
## [10819]	3.228791	3.231503	3.238971	3.228154	3.236474	3.237537
## [10825]	3.232733	3.198206	3.208683	3.214232	3.230588	3.240573
## [10831]	3.282055	3.275112	3.266276	3.267764	3.260243	3.231376
## [10837]	3.230711	3.212874	3.207968	3.225148	3.229030	3.221838
## [10843]	3.231145	3.238535	3.240065	3.247030	3.257581	3.257431
## [10849]	3.256669	3.252030	3.250522	3.247417	3.237246	3.242148
## [10855]	3.203664	3.200490	3.185303	3.170224	3.168884	3.170487
## [10861]	3.155979	3.163977	3.166703	3.194647	3.231972	3.217690
## [10867]	3.214727	3.216950	3.227376	3.226301	3.235189	3.253994
## [10873]	3.288400	3.289135	3.310037	3.320971	3.305423	3.333940
## [10879]	3.364461	3.360566	3.368398	3.366826	3.401420	3.405734
## [10885]	3.569165	3.784153	3.842687	3.893277	4.028756	4.112746
## [10891]	4.198720	4.335861	4.529107	4.751884	4.879808	4.868314
## [10897]	4.996304	5.592878	6.133672	6.384245	6.465138	6.671077
## [10903]	7.193933	7.850814	7.904266	8.779964	10.159384	11.481915
## [10909]	12.287926	12.591219	13.352155	13.824621	13.945180	14.439157
## [10915]	14.913317	14.982408	15.308695	15.812029	16.297936	16.469762
## [10921]	16.508408	16.686819	16.877209	17.108165	17.316994	17.377708
## [10927]	17.783089	18.731898	19.896318	20.675763	20.801656	21.045789
## [10933]	21.478025	21.759153	21.870670	21.886475	22.501117	23.277035
## [10939]	23.656827	23.785797	23.879611	24.706369	25.691879	26.069223
## [10945]	26.096564	26.571780	27.209348	27.424240	27.420276	27.886729
## [10951]	29.179116	29.968696	30.393636	31.471018	32.530975	33.247537
## [10957]	33.665792	33.752108	34.932906	36.322851	36.686696	36.725752
## [10963]	37.103942	37.462222	38.080407	39.620808	41.130525	41.725553
## [10969]	41.989234	43.020439	44.449886	45.622182	46.612992	47.186573
## [10975]	47.429551	47.427921	47.839425	48.529795	49.299002	49.833893
## [10981]	50.092857	50.254260	51.063287	51.906558	52.372342	52.665237
## [10987]	53.309211	53.555628	53.809728	54.478949	54.901335	55.561041
## [10993]	56.485091	56.947652	57.159367	57.547636	57.703324	58.231443
## [10999]	59.309822	60.419892	61.183843	61.639021	61.969451	62.131072
## [11005]	62.205263	62.915305	64.324347	65.375674	65.597231	65.647232
## [11011]	66.874414	69.422543	72.158654	73.988291	74.399914	75.181880
## [11017]	76.510663	78.227325	79.086848	79.244531	79.803356	80.463365
## [11023]	81.015266	81.019564	82.015875	84.338247	87.086095	88.722102
## [11029]	88.982703	89.783543	90.924547	91.599434	91.748632	92.946797
## [11035]	94.523815	95.874413	96.700738	97.058340	97.144793	97.283916
## [11041]	97.681917	98.462454	99.598761	100.813842	101.821867	102.630556
## [11047]	103.080627	103.515725	103.749004	104.337329	105.510800	106.745230

##	[11053]	107.669005	108.289964	108.608374	108.633414	109.101126	109.633992
##	[11059]	110.249625	111.070594	112.008361	112.511640	112.749504	113.483842
##	[11065]	114.422435	115.175245	115.511467	115.534594	115.560190	115.577072
##	[11071]	115.580324	115.760875	116.179021	116.892971	117.901783	119.135150
##	[11077]	120.162151	120.801524	121.028817	121.094921	121.250065	121.594969
##	[11083]	121.969779	122.049469	123.022683	124.115176	124.970741	124.953647
##	[11089]	125.558289	125.957269	126.415476	126.345355	126.537522	126.733410
##	[11095]	126.689903	126.791669	127.063643	127.056433	126.500085	125.941656
##	[11101]	126.020611	126.446600	126.802285	126.710072	126.191702	126.245423
##	[11107]	125.647053	124.585919	123.558809	122.941807	122.799125	122.174632
##	[11113]	121.826613	121.714498	121.368827	121.092386	121.238671	121.093190
##	[11119]	120.750427	120.419662	120.399948	120.425037	120.394341	120.375549
##	[11125]	120.267899	120.188739	120.231229	119.917075	118.949932	117.796663
##	[11131]	117.055906	116.947601	116.750304	116.336103	116.061771	115.959693
##	[11137]	115.937306	115.321178	114.564863	114.243033	114.229004	114.242586
##	[11143]	113.522695	112.620876	112.291723	112.368648	111.991352	111.406461
##	[11149]	111.270577	111.316190	110.871342	109.632606	108.915443	108.614205
##	[11155]	107.663835	106.659347	105.954447	105.524811	105.405531	104.223625
##	[11161]	102.838333	102.476662	102.453699	102.105968	101.782426	101.189450
##	[11167]	99.682441	98.219364	97.672433	97.467504	96.462706	95.052531
##	[11173]	93.936166	92.989024	92.417697	92.184667	92.199755	91.785808
##	[11179]	91.105736	90.413854	89.927813	89.743180	89.630804	88.817350
##	[11185]	88.016333	87.538998	87.258726	86.632559	86.368378	86.101978
##	[11191]	85.411929	84.979556	84.340067	83.421782	82.955868	82.741846
##	[11197]	82.356212	82.196024	81.649536	80.560683	79.440659	78.694162
##	[11203]	78.241645	77.916339	77.775417	77.736164	77.061132	75.688121
##	[11209]	74.633456	74.391751	74.329326	73.105525	70.538526	67.852005
##	[11215]	66.044643	65.634729	64.862428	63.543119	61.829739	60.980476
##	[11221]	60.831813	60.274227	59.583451	59.035020	59.017246	58.026953
##	[11227]	55.698401	52.970109	51.314090	51.031293	50.209659	49.046368
##	[11233]	48.331293	48.193930	46.996784	45.421411	44.109408	43.294662
##	[11239]	42.946627	42.864311	42.720964	42.307139	41.517612	40.382082
##	[11245]	39.170788	38.159958	37.343452	36.899305	36.484702	36.260550
##	[11251]	35.676591	34.511656	33.289493	32.365403	31.770022	31.447728
##	[11257]	31.444723	30.986241	30.452642	29.837484	29.035372	28.095198
##	[11263]	27.616883	27.384990	26.650636	25.690563	24.904024	24.580940
##	[11269]	24.579464	24.558889	24.542962	24.528929	24.332908	23.917460
##	[11275]	23.170057	22.179877	20.929134	19.893305	19.252908	19.004872
##	[11281]	18.929927	18.774702	18.423506	18.047733	17.940288	16.989432
##	[11287]	15.724121	14.678162	14.632841	13.969438	13.424343	12.857347
##	[11293]	12.876326	12.552463	12.176458	11.981741	11.723746	11.430504
##	[11299]	11.287840	11.291475	11.310718	10.985493	10.477727	9.893464
##	[11305]	9.450853	9.301702	9.194104	8.934153	8.628036	8.322795
##	[11311]	8.128964	7.984606	7.838387	7.705075	7.698082	7.545912
##	[11317]	7.352306	7.153613	6.967699	6.784584	6.594462	6.457656
##	[11323]	6.395228	6.239271	6.080200	5.945462	5.817560	5.694474
##	[11329]	5.569702	5.533283	5.520304	5.475213	5.403388	5.359373
##	[11335]	5.313485	5.312446	5.312557	5.318591	5.330551	5.331315
##	[11341]	5.263597	5.155651	5.047755	4.944687	4.810976	4.696217
##	[11347]	4.549860	4.459947	4.379154	4.282650	4.211012	4.157778
##	[11353]	4.065939	3.957034	3.822516	3.707132	3.666179	3.689046
##	[11359]	3.708907	3.714044	3.760572	3.768936	3.772052	3.737801
##	[11365]	3.713801	3.689002	3.660009	3.623047	3.597221	3.553300
##	[11371]	3.495658	3.458544	3.437143	3.390562	3.347000	3.345308

## [11377]	3.334049	3.318534	3.296148	3.309587	3.247645	3.195465
## [11383]	3.164650	3.133026	3.114183	3.072828	3.058555	3.059967
## [11389]	3.042438	3.089363	3.085915	3.066765	3.032164	3.002887
## [11395]	2.985197	2.985883	2.982962	2.989998	2.995701	2.997565
## [11401]	2.995986	2.996287	2.978748	2.978247	2.982557	3.011566
## [11407]	2.988826	2.935314	2.885630	2.901125	2.881285	2.878817
## [11413]	2.882561	2.882878	2.860739	2.875692	2.879496	2.849441
## [11419]	2.844774	2.855731	2.863889	2.889212	2.905780	2.900636
## [11425]	2.915812	2.924366	2.917488	2.930443	2.922459	2.933676
## [11431]	2.920327	2.939207	2.935577	2.938960	2.934535	2.952801
## [11437]	2.962183	2.942959	2.926386	2.941473	2.926613	2.919845
## [11443]	2.928842	2.960870	2.978856	2.960627	2.995274	3.023366
## [11449]	3.037407	3.070727	3.095925	3.109663	3.114049	3.145989
## [11455]	3.193718	3.187582	3.186044	3.181316	3.151900	3.150017
## [11461]	3.147824	3.141138	3.149212	3.126619	3.106151	3.083817
## [11467]	3.076174	3.080670	3.081635	3.069223	3.050957	3.030783
## [11473]	3.036878	3.053218	3.061667	3.066116	3.062847	3.057948
## [11479]	3.043087	3.068677	3.082508	3.066968	3.064799	3.072941
## [11485]	3.084023	3.077133	3.063622	3.064256	3.058455	3.071816
## [11491]	3.052282	3.057245	3.086850	3.062617	3.059037	3.050546
## [11497]	3.049025	3.064158	3.084744	3.082475	3.039056	3.026400
## [11503]	2.994165	2.998863	3.001965	2.999576	3.020618	3.029588
## [11509]	3.011582	3.007049	3.013073	3.005377	3.003292	3.008141
## [11515]	3.010277	3.011306	3.018778	3.015633	3.006346	2.983181
## [11521]	2.990773	2.986510	2.958973	2.942449	2.947314	2.926362
## [11527]	2.910614	2.908821	2.924067	2.922456	2.924113	2.929058
## [11533]	2.922621	2.926263	2.914515	2.930105	2.924417	2.926322
## [11539]	2.920784	2.916330	2.890426	2.882424	2.872472	2.875332
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## [11551]	2.873780	2.891021	2.900316	2.895092	2.905999	2.906722
## [11557]	2.894065	2.881097	2.880699	2.850486	2.886694	2.837673
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## [11569]	2.837169	2.838055	2.837896	2.839484	2.840624	2.830867
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## [11581]	2.921401	2.955200	2.965552	2.978827	3.036340	3.052492
## [11587]	3.231358	3.376452	3.368413	3.452808	3.596918	3.769853
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## [11599]	5.734500	7.240915	7.846068	8.342708	9.669678	10.808392
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## [11653]	38.252186	38.248251	38.507187	39.199830	39.965897	40.343592
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## [11665]	42.923370	43.272246	44.277668	45.589563	46.742539	48.529112
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##	[11701]	73.731656	74.585521	75.342568	75.819247	76.643418	77.662153
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##	[11839]	112.970946	112.229335	111.394355	110.703942	110.235865	109.588387
##	[11845]	108.214128	107.410068	107.253301	107.077294	106.818248	106.533231
##	[11851]	105.605814	105.033745	104.598418	104.334313	104.350121	104.057087
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##	[11869]	97.026024	95.869384	94.079295	93.021921	92.793299	91.956375
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##	[11887]	81.890651	79.789194	77.376577	76.271183	76.171338	75.527376
##	[11893]	74.787206	74.654565	74.604703	73.648318	72.757596	71.620932
##	[11899]	70.554321	69.638792	69.264364	68.809845	67.963350	67.207331
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##	[11983]	11.510237	10.869237	10.525638	10.488277	10.146625	9.683028
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##	[12007]	5.574355	5.485392	5.390054	5.405377	5.368113	5.376529
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## [12667]	16.501120	15.945706	15.075696	14.267150	13.692147	13.481980

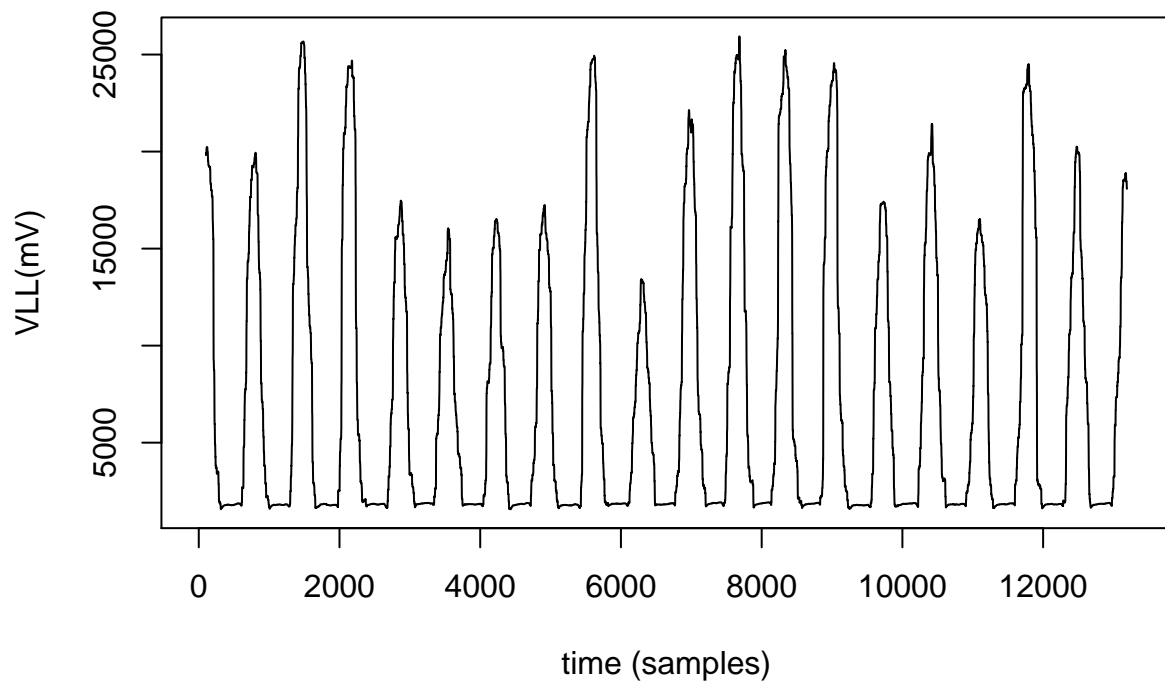


## [12673]	12.751400	11.847582	11.288984	11.041925	10.911533	10.925941
## [12679]	10.680234	10.390648	10.049067	9.756842	9.505546	9.160744
## [12685]	8.819488	8.615287	8.613623	8.610825	8.552522	8.352676
## [12691]	8.119657	7.881454	7.584882	7.305802	7.049988	6.752192
## [12697]	6.525419	6.358641	6.181874	6.118899	6.079019	6.041595
## [12703]	6.023823	6.000629	5.944845	5.910882	5.870262	5.845166
## [12709]	5.775759	5.710195	5.634028	5.644000	5.588710	5.470777
## [12715]	5.368953	5.257423	5.118908	4.996936	4.841307	4.708435
## [12721]	4.607814	4.528480	4.431685	4.319098	4.249058	4.169324
## [12727]	4.066627	4.027407	3.991220	3.963616	3.917493	3.879830
## [12733]	3.824888	3.825491	3.822615	3.794334	3.815576	3.772267
## [12739]	3.735758	3.728068	3.727595	3.689543	3.670729	3.635778
## [12745]	3.605968	3.575652	3.549249	3.534361	3.510345	3.514417
## [12751]	3.497968	3.484632	3.505701	3.497987	3.467508	3.463443
## [12757]	3.439490	3.395731	3.344880	3.296475	3.225107	3.186523
## [12763]	3.190020	3.211550	3.243100	3.240085	3.228901	3.254156
## [12769]	3.240339	3.262220	3.268681	3.258876	3.256478	3.240434
## [12775]	3.206311	3.176737	3.144755	3.157544	3.156650	3.168101
## [12781]	3.183535	3.183308	3.183809	3.180673	3.181210	3.183427
## [12787]	3.178391	3.183151	3.181133	3.149470	3.127415	3.121832
## [12793]	3.109760	3.098157	3.108058	3.120685	3.117330	3.123307
## [12799]	3.162280	3.164291	3.155328	3.193750	3.187841	3.179398
## [12805]	3.182309	3.172642	3.197274	3.230177	3.216379	3.195408
## [12811]	3.183900	3.184251	3.154129	3.162411	3.157405	3.159653
## [12817]	3.145484	3.132145	3.131219	3.150361	3.123695	3.130792
## [12823]	3.142408	3.132889	3.131662	3.126042	3.104810	3.089451
## [12829]	3.076859	3.057954	3.060805	3.062688	3.076703	3.065011
## [12835]	3.056363	3.067003	3.100565	3.106995	3.130290	3.158807
## [12841]	3.159338	3.172491	3.184223	3.169791	3.164460	3.153021
## [12847]	3.164049	3.190057	3.175496	3.191223	3.194704	3.214688
## [12853]	3.237521	3.231977	3.230822	3.224741	3.237231	3.220462
## [12859]	3.243199	3.234980	3.251853	3.234942	3.191347	3.155590
## [12865]	3.161553	3.146877	3.173083	3.187934	3.196975	3.250501
## [12871]	3.250086	3.241290	3.200330	3.162306	3.171376	3.169970
## [12877]	3.172469	3.193782	3.171488	3.179375	3.196416	3.164118
## [12883]	3.164710	3.156426	3.155577	3.133790	3.101392	3.108997
## [12889]	3.108347	3.119273	3.099884	3.051940	3.057371	3.065292
## [12895]	3.037389	2.995655	2.996181	2.990028	2.996594	3.002019
## [12901]	3.005259	3.003186	3.009617	2.988492	2.961237	2.974158
## [12907]	2.969765	2.955569	2.948697	2.950964	2.940251	2.951510
## [12913]	2.944677	2.943485	2.948524	2.930323	2.914530	2.916527
## [12919]	2.903603	2.909821	2.914450	2.905802	2.889824	2.880218
## [12925]	2.866794	2.838419	2.837620	2.836561	2.801638	2.800313
## [12931]	2.835774	2.833628	2.832698	2.832756	2.788103	2.770444
## [12937]	2.773636	2.744414	2.752870	2.747089	2.754890	2.758977
## [12943]	2.766610	2.782631	2.781456	2.795924	2.822104	2.834467
## [12949]	2.870408	2.884670	2.870644	2.874014	2.882040	2.990942
## [12955]	3.298428	3.505001	3.540186	3.662089	3.876165	4.164567
## [12961]	4.485065	4.593040	4.572807	4.559644	4.546222	4.552871
## [12967]	4.628400	4.851223	5.132693	5.372287	5.424177	5.435098
## [12973]	5.525939	5.563877	5.616678	5.972636	6.390193	7.059971
## [12979]	7.505007	7.766757	8.185888	9.060897	9.869113	10.453501
## [12985]	11.154908	12.116705	13.014910	13.697911	13.935512	14.299329
## [12991]	14.952558	15.529930	15.650935	15.776612	15.770411	16.009720

```
## [12997] 16.383303 17.479117 19.081879 20.590208 21.140265 21.438663
## [13003] 22.263371 23.058668 23.580151 23.674781 23.867364 23.938971
## [13009] 24.129351 24.633997 25.214594 25.599470 25.975327 27.206496
## [13015] 29.187642 30.279376 30.892522 32.882674 35.098850 36.482960
## [13021] 36.689734 37.123751 37.606133 37.674740 37.872763 38.107083
## [13027] 38.398710 38.834258 39.077868 40.738142 41.657691 42.240511
## [13033] 43.671846 45.096654 45.859272 46.032918 46.030738 46.146397
## [13039] 46.522371 47.232025 48.092995 48.644686 48.704306 48.727788
## [13045] 48.973065 49.955290 50.870446 51.000729 51.139572 51.567382
## [13051] 52.226506 52.666335 53.378255 53.696589 54.390306 55.953030
## [13057] 57.424147 58.365824 58.757900 58.965983 59.581284 59.681178
## [13063] 60.738024 61.857581 62.320450 62.396855 62.731264 63.205378
## [13069] 63.762801 64.365385 65.449273 66.856019 67.469619 68.105472
## [13075] 69.260201 70.256827 70.963819 71.045917 71.303758 72.074833
## [13081] 72.315135 72.723527 73.451963 73.688078 73.784645 73.859582
## [13087] 74.062807 74.134576 74.953270 76.446046 77.219443 77.460960
## [13093] 78.742590 80.183726 81.286635 82.055434 82.346890 82.881621
## [13099] 83.965135 85.191860 86.368282 88.037054 89.803259 90.962483
## [13105] 91.145152 92.593464 94.442057 96.071095 97.233540 97.771707
## [13111] 97.892635 97.920008 98.162653 98.635763 99.250190 99.851410
## [13117] 99.975274 101.480039 103.850159 105.822185 106.950822 107.232525
## [13123] 107.278074 108.213660 109.951995 111.926992 112.946707 113.742309
## [13129] 114.696292 115.648721 116.177026 116.471570 117.734949 119.346129
## [13135] 120.871351 122.223622 123.207265 124.236192 124.854569 125.132854
## [13141] 126.000086 126.842923 127.353249 127.626702 127.764735 127.793999
## [13147] 127.878221 128.004368 128.117696 128.074258 128.193207 128.393508
## [13153] 128.628023 128.769594 128.648142 128.410182 128.452101 128.844238
## [13159] 129.217350 129.334293 129.071658 129.103333 129.455199 129.573173
## [13165] 129.875171 130.031473 130.411503 131.210129 131.927475 132.461046
## [13171] 132.862844 133.257894 133.687781 133.913677 133.926892 134.038650
## [13177] 134.023151 133.990134 133.702968 133.594249 133.667743 133.581924
## [13183] 133.045744 132.528714 132.181035 131.761068 131.053237 130.368915
## [13189] 129.859966 129.764449 129.527057 NA NA NA
## [13195] NA NA NA NA NA NA NA
## [13201] NA NA NA NA NA NA NA
## [13207] NA NA NA NA NA NA NA
## [13213] NA NA NA NA NA NA NA
## [13219] NA NA NA NA NA NA NA
## [13225] NA NA NA NA NA NA NA
## [13231] NA NA NA NA NA NA NA
## [13237] NA NA NA NA NA NA NA
## [13243] NA NA NA NA NA NA NA
## [13249] NA NA NA NA NA NA NA
## [13255] NA NA NA NA NA NA NA
## [13261] NA NA NA NA NA NA NA
## [13267] NA NA NA NA NA NA NA
## [13273] NA NA NA NA NA NA NA
## [13279] NA NA NA NA NA NA NA
## [13285] NA NA NA NA NA NA NA
## [13291] NA
```

```
#EMG RMS (preferred recommendation for smoothing)
emgrms <- envelope(emgrect, method = "RMS", wsize = 100) # wsize; 100 ms, most common for all condition.
plot(emgrms, main = "RMS-envelope")
```

## RMS-envelope



emgrms

```
## EMG Object : VLL
## Number of samples: 13291
## Units: mV
## Duration (seconds): 8.860667
## Samplingrate (Hertz): 1500
## Values:
## [1] NA NA NA NA NA NA
## [7] NA NA NA NA NA NA
## [13] NA NA NA NA NA NA
## [19] NA NA NA NA NA NA
## [25] NA NA NA NA NA NA
## [31] NA NA NA NA NA NA
## [37] NA NA NA NA NA NA
## [43] NA NA NA NA NA NA
## [49] NA NA NA NA NA NA
## [55] NA NA NA NA NA NA
## [61] NA NA NA NA NA NA
## [67] NA NA NA NA NA NA
## [73] NA NA NA NA NA NA
## [79] NA NA NA NA NA NA
## [85] NA NA NA NA NA NA
## [91] NA NA NA NA NA NA
## [97] NA NA NA NA 19817.369 19832.533
## [103] 19858.328 19899.880 19921.766 19920.527 19913.661 19942.877
## [109] 20009.946 20100.215 20164.021 20203.943 20225.084 20223.000
```

##	[115]	20222.730	20231.613	20232.409	20235.711	20230.409	20231.111
##	[121]	20221.080	20148.550	20058.997	20021.358	20003.192	20001.537
##	[127]	19994.195	19984.515	19874.290	19727.466	19560.536	19514.192
##	[133]	19522.915	19512.556	19447.846	19367.017	19311.225	19306.547
##	[139]	19307.590	19304.097	19303.671	19262.062	19224.022	19221.298
##	[145]	19215.189	19213.481	19210.676	19209.154	19211.369	19212.749
##	[151]	19214.811	19223.465	19230.837	19214.186	19202.688	19208.459
##	[157]	19215.584	19211.363	19215.327	19213.773	19168.006	19090.633
##	[163]	19094.634	18778.835	18443.251	18422.543	18419.327	18334.416
##	[169]	18296.886	18300.953	18307.115	18308.325	18316.293	18221.433
##	[175]	18072.231	18021.320	18026.209	18033.616	18034.845	17998.338
##	[181]	17987.978	17993.839	17999.034	18003.119	17951.331	17832.122
##	[187]	17693.951	17679.907	17679.573	17688.103	17697.529	17703.882
##	[193]	17709.339	17714.979	17644.034	17453.252	17025.115	16723.116
##	[199]	16403.051	16389.402	16282.056	16086.812	15916.121	15775.709
##	[205]	15630.955	15500.688	15503.246	15447.618	13890.970	10842.238
##	[211]	9292.921	9250.615	9225.598	9083.951	8863.759	8791.122
##	[217]	8769.260	8778.250	8734.330	8553.248	8219.831	7698.492
##	[223]	6928.201	6146.944	5950.843	5958.119	5935.549	5751.175
##	[229]	5401.881	5083.530	4911.368	4918.630	4918.679	4795.519
##	[235]	4579.630	4382.712	4265.997	4274.053	3979.471	3814.294
##	[241]	3823.930	3816.609	3704.850	3688.203	3691.098	3694.863
##	[247]	3696.150	3700.895	3703.845	3702.574	3708.683	3715.556
##	[253]	3725.536	3702.122	3530.614	3397.487	3403.278	3409.687
##	[259]	3410.635	3414.720	3422.816	3427.873	3433.213	3442.316
##	[265]	3447.304	3449.920	3455.525	3463.918	3469.977	3478.630
##	[271]	3485.836	3486.574	3492.316	3499.171	3503.596	3500.903
##	[277]	3508.812	3486.976	3323.211	3090.905	2904.776	2861.713
##	[283]	2864.607	2817.367	2577.967	2201.415	2014.873	2013.540
##	[289]	2018.323	2010.316	1961.573	1918.259	1897.193	1898.996
##	[295]	1907.670	1914.846	1922.067	1928.001	1931.323	1938.262
##	[301]	1942.973	1939.914	1924.395	1895.706	1861.634	1847.727
##	[307]	1854.743	1858.819	1831.024	1768.425	1676.431	1617.781
##	[313]	1581.128	1568.719	1578.009	1587.982	1588.930	1596.207
##	[319]	1600.812	1603.996	1612.497	1619.275	1627.051	1630.325
##	[325]	1632.776	1635.567	1642.450	1648.671	1653.159	1657.242
##	[331]	1660.191	1658.981	1656.410	1654.816	1659.146	1663.874
##	[337]	1670.856	1678.793	1687.196	1693.130	1694.605	1704.628
##	[343]	1709.067	1716.519	1724.779	1731.979	1737.015	1743.437
##	[349]	1747.625	1746.295	1746.295	1747.625	1745.911	1745.497
##	[355]	1746.768	1749.732	1754.062	1754.839	1758.626	1762.079
##	[361]	1765.801	1767.918	1765.751	1767.505	1767.505	1769.218
##	[367]	1771.789	1775.511	1777.678	1776.437	1777.254	1780.219
##	[373]	1780.642	1781.066	1781.962	1781.962	1780.722	1780.722
##	[379]	1781.519	1786.063	1788.395	1791.848	1795.480	1796.278
##	[385]	1793.313	1789.965	1787.514	1785.421	1786.218	1791.335
##	[391]	1791.779	1791.779	1790.025	1790.922	1791.375	1792.252
##	[397]	1792.252	1793.886	1795.640	1795.640	1796.043	1795.146
##	[403]	1793.472	1792.655	1794.369	1798.256	1799.526	1804.643
##	[409]	1800.657	1801.514	1802.814	1801.918	1801.918	1804.085
##	[415]	1805.480	1805.923	1804.329	1805.540	1805.540	1804.329
##	[421]	1803.935	1802.605	1805.057	1805.953	1804.623	1801.937
##	[427]	1801.140	1800.717	1799.820	1799.367	1798.923	1798.086
##	[433]	1797.230	1798.530	1797.633	1798.430	1798.430	1796.677

##	[439]	1795.820	1797.573	1797.120	1792.900	1791.570	1789.552
##	[445]	1789.552	1789.552	1787.385	1786.961	1787.798	1787.001
##	[451]	1788.271	1789.029	1786.158	1781.829	1781.829	1780.678
##	[457]	1779.348	1779.348	1781.515	1780.184	1780.184	1780.184
##	[463]	1781.061	1782.391	1782.825	1782.381	1783.218	1780.324
##	[469]	1777.992	1776.238	1775.362	1778.710	1779.890	1782.057
##	[475]	1782.461	1783.338	1784.668	1783.338	1785.505	1785.062
##	[481]	1783.308	1783.308	1784.205	1782.087	1782.087	1780.787
##	[487]	1780.787	1781.624	1782.077	1782.077	1786.163	1786.596
##	[493]	1787.433	1789.147	1789.147	1787.877	1786.123	1786.123
##	[499]	1785.680	1789.028	1791.195	1793.706	1795.978	1800.417
##	[505]	1801.598	1802.002	1803.272	1805.389	1807.423	1810.213
##	[511]	1815.330	1820.447	1819.994	1820.447	1821.778	1821.778
##	[517]	1819.660	1819.660	1820.074	1821.748	1822.988	1821.748
##	[523]	1821.314	1821.748	1820.951	1821.847	1824.811	1827.706
##	[529]	1830.895	1835.225	1837.676	1839.843	1842.354	1844.471
##	[535]	1847.819	1846.519	1847.849	1849.917	1850.320	1851.621
##	[541]	1852.074	1855.422	1854.979	1854.525	1855.422	1856.692
##	[547]	1860.040	1865.028	1869.113	1872.835	1874.165	1871.201
##	[553]	1870.748	1872.461	1874.175	1873.318	1871.565	1872.018
##	[559]	1874.589	1875.919	1877.249	1874.678	1873.378	1872.974
##	[565]	1872.078	1872.531	1872.531	1870.777	1870.324	1870.324
##	[571]	1871.565	1871.151	1868.580	1868.580	1868.580	1867.250
##	[577]	1863.264	1859.198	1856.985	1856.985	1856.552	1856.552
##	[583]	1856.552	1855.252	1856.522	1857.319	1858.096	1854.533
##	[589]	1854.219	1846.440	1835.907	1832.639	1822.131	1816.678
##	[595]	1809.219	1798.847	1790.369	1781.251	1772.046	1762.775
##	[601]	1767.298	1786.852	1782.926	1778.066	1776.915	1775.202
##	[607]	1766.377	1756.797	1759.153	1838.340	1911.398	1944.273
##	[613]	1938.816	2018.356	2296.622	2564.403	2688.017	2710.264
##	[619]	2705.347	2695.328	2690.384	2688.909	2680.968	2678.516
##	[625]	2673.399	2664.678	2666.108	2679.500	2677.126	2673.895
##	[631]	2671.339	2662.792	2662.792	2809.753	3235.380	4115.670
##	[637]	4678.831	4787.221	4787.644	4797.932	4799.786	4801.120
##	[643]	4796.811	4791.198	4845.225	5150.464	5695.173	6090.724
##	[649]	6176.589	6171.532	6385.316	6808.447	7068.503	7147.393
##	[655]	7423.294	7575.007	7569.603	7567.969	7570.325	7661.423
##	[661]	7762.565	7752.138	7743.312	7748.228	7737.802	7735.350
##	[667]	7736.193	7855.835	8049.512	8049.832	8057.162	8062.956
##	[673]	8313.169	8608.165	8604.079	9016.821	9934.945	10789.267
##	[679]	11209.901	11267.383	11263.124	11499.388	12436.084	13282.128
##	[685]	13461.275	13451.857	13448.493	13441.287	13433.174	13423.329
##	[691]	13520.196	13750.310	13957.848	14145.528	14309.293	14301.863
##	[697]	14363.859	14355.306	14385.451	14376.503	14367.927	14357.981
##	[703]	14351.229	14356.786	14352.305	14508.608	14647.305	14754.020
##	[709]	14773.372	14770.456	14763.590	14755.915	15006.128	15691.709
##	[715]	15823.151	15820.186	16010.515	16172.697	16172.191	16165.811
##	[721]	16184.095	16385.875	16716.649	16941.572	16992.049	16985.907
##	[727]	17001.823	17236.333	17567.591	17656.762	17650.828	17643.353
##	[733]	17668.694	17658.991	17649.298	17640.345	17633.751	17658.252
##	[739]	17653.090	17647.123	17705.059	17917.983	18203.485	18425.821
##	[745]	18523.141	18559.341	18564.160	18557.217	18547.198	18538.850
##	[751]	18536.279	18530.801	18580.109	18645.204	18742.525	18979.702
##	[757]	19194.380	19267.017	19256.481	19248.572	19238.851	19230.915

##	[763]	19225.114	19224.250	19232.969	19236.734	19241.197	19233.741
##	[769]	19227.147	19222.817	19215.906	19209.805	19201.546	19195.768
##	[775]	19193.377	19186.574	19177.427	19188.014	19227.073	19266.147
##	[781]	19340.475	19350.961	19344.778	19366.558	19382.095	19380.776
##	[787]	19381.563	19375.786	19418.897	19499.400	19543.636	19603.750
##	[793]	19651.707	19694.636	19697.715	19700.735	19706.626	19755.696
##	[799]	19817.055	19845.729	19846.068	19833.867	19830.964	19874.925
##	[805]	19918.556	19932.064	19935.593	19936.739	19936.680	19924.618
##	[811]	19844.429	19768.546	19726.554	19722.353	19635.536	19347.981
##	[817]	19073.859	18940.552	18913.306	18913.917	18919.272	18920.543
##	[823]	18917.074	18916.919	18909.961	18906.502	18906.174	18904.067
##	[829]	18883.333	18877.615	18872.299	18867.607	18866.988	18861.246
##	[835]	18715.584	18289.958	17407.994	16843.652	16735.666	16735.666
##	[841]	16727.132	16723.110	16722.230	16731.656	16736.432	16680.969
##	[847]	16371.645	15826.059	15432.675	15348.564	15351.603	15140.783
##	[853]	14715.979	14454.802	14376.913	14101.710	13950.390	13957.349
##	[859]	13959.417	13953.713	13859.266	13754.014	13757.803	13763.520
##	[865]	13754.972	13762.050	13765.398	13765.452	13646.244	13455.462
##	[871]	13458.330	13449.789	13439.571	13186.787	12893.958	12897.147
##	[877]	12484.406	11565.405	10708.916	10288.282	10229.903	10235.059
##	[883]	10000.548	9064.709	8218.665	8041.192	8051.053	8056.170
##	[889]	8062.480	8070.170	8075.576	7975.744	7744.734	7536.338
##	[895]	7347.418	7184.106	7187.451	7124.658	7133.210	7102.622
##	[901]	7107.350	7112.204	7119.186	7123.821	7120.431	7124.458
##	[907]	6968.992	6832.463	6724.477	6701.857	6704.772	6712.850
##	[913]	6717.953	6465.987	5780.859	5649.418	5652.382	5460.724
##	[919]	5300.659	5301.165	5307.545	5290.158	5088.378	4757.210
##	[925]	4529.895	4476.593	4485.699	4467.617	4233.107	3898.953
##	[931]	3809.783	3815.717	3821.125	3793.616	3801.202	3810.451
##	[937]	3815.682	3823.577	3796.909	3801.214	3808.018	3747.571
##	[943]	3533.751	3245.678	3020.517	2921.483	2883.529	2879.154
##	[949]	2886.097	2895.673	2904.021	2906.591	2911.616	2864.376
##	[955]	2799.733	2701.536	2463.916	2250.095	2175.864	2185.946
##	[961]	2192.101	2200.926	2208.861	2217.234	2219.398	2211.920
##	[967]	2206.884	2200.667	2207.246	2215.141	2219.924	2225.082
##	[973]	2230.758	2240.289	2246.883	2248.034	2254.414	2262.724
##	[979]	2255.679	2220.293	2181.917	2106.034	2092.793	2096.644
##	[985]	2076.194	2060.658	2062.873	2064.253	2072.147	2035.494
##	[991]	1958.993	1922.132	1870.798	1823.992	1787.131	1788.294
##	[997]	1790.980	1791.375	1749.069	1695.114	1676.976	1685.908
##	[1003]	1695.753	1680.816	1639.106	1602.453	1592.666	1589.137
##	[1009]	1593.991	1601.956	1609.908	1615.349	1619.071	1628.189
##	[1015]	1637.413	1645.103	1650.671	1658.163	1664.223	1667.788
##	[1021]	1670.883	1676.000	1682.637	1688.379	1695.638	1704.191
##	[1027]	1711.870	1720.082	1721.113	1725.360	1730.088	1735.446
##	[1033]	1742.696	1750.591	1757.170	1755.456	1753.742	1754.559
##	[1039]	1755.740	1757.907	1759.238	1758.784	1760.498	1759.601
##	[1045]	1759.601	1761.768	1766.552	1769.740	1770.617	1769.720
##	[1051]	1768.390	1771.285	1770.832	1773.402	1777.488	1781.474
##	[1057]	1784.229	1784.229	1786.396	1786.839	1788.434	1791.328
##	[1063]	1796.316	1799.989	1801.081	1803.412	1806.307	1804.977
##	[1069]	1804.977	1805.420	1802.152	1798.609	1799.003	1803.428
##	[1075]	1805.102	1803.772	1800.583	1798.665	1796.647	1792.755
##	[1081]	1790.363	1787.912	1784.948	1783.194	1783.194	1782.297

##	[1087]	1779.846	1780.300	1780.300	1778.626	1779.049	1782.158
##	[1093]	1785.122	1786.019	1785.202	1782.656	1782.202	1786.288
##	[1099]	1789.252	1790.109	1788.435	1792.655	1796.377	1799.341
##	[1105]	1799.745	1797.991	1798.445	1798.445	1798.445	1800.158
##	[1111]	1803.427	1804.184	1805.484	1808.055	1809.355	1807.602
##	[1117]	1807.602	1807.602	1807.602	1805.888	1802.540	1802.963
##	[1123]	1799.242	1798.001	1798.798	1799.949	1803.671	1801.504
##	[1129]	1802.774	1802.774	1805.669	1805.669	1804.792	1805.589
##	[1135]	1807.303	1809.874	1810.771	1811.922	1811.922	1812.759
##	[1141]	1814.059	1814.492	1815.703	1815.703	1816.944	1820.665
##	[1147]	1821.079	1822.379	1822.379	1820.212	1818.941	1816.371
##	[1153]	1815.474	1815.031	1815.031	1814.134	1815.464	1815.908
##	[1159]	1813.840	1813.840	1812.126	1810.532	1810.098	1806.013
##	[1165]	1803.846	1799.860	1799.023	1795.435	1795.858	1793.467
##	[1171]	1791.753	1790.000	1789.586	1789.172	1790.069	1790.926
##	[1177]	1790.926	1791.783	1793.950	1793.950	1793.950	1794.688
##	[1183]	1794.324	1795.839	1796.202	1794.449	1792.481	1789.910
##	[1189]	1785.471	1782.576	1781.276	1780.459	1781.699	1781.699
##	[1195]	1783.373	1786.059	1783.582	1785.336	1787.668	1788.938
##	[1201]	1791.105	1790.652	1788.485	1787.588	1788.041	1790.159
##	[1207]	1789.715	1787.548	1789.262	1792.087	1792.491	1794.244
##	[1213]	1792.914	1792.461	1791.584	1790.747	1792.501	1795.769
##	[1219]	1798.340	1801.528	1806.311	1807.109	1807.109	1804.942
##	[1225]	1805.355	1807.069	1807.069	1807.512	1809.679	1813.311
##	[1231]	1819.370	1824.488	1825.609	1826.062	1826.899	1827.332
##	[1237]	1827.746	1827.746	1829.500	1831.667	1829.096	1826.929
##	[1243]	1824.811	1822.301	1821.867	1819.700	1817.533	1817.533
##	[1249]	1817.533	1817.533	1815.082	1812.326	1811.883	1811.440
##	[1255]	1810.986	1810.090	1807.972	1807.549	1809.223	1809.223
##	[1261]	1806.712	1804.026	1796.346	1786.969	1780.362	1776.534
##	[1267]	1772.228	1768.243	1769.573	1760.466	1755.764	1750.716
##	[1273]	1746.603	1744.057	1736.455	1729.218	1726.827	1728.745
##	[1279]	1723.109	1716.613	1714.997	1715.755	1711.428	1704.330
##	[1285]	1702.318	1701.461	1723.598	1739.357	1736.740	1734.573
##	[1291]	1738.998	1772.749	1780.809	1779.861	1779.861	1827.716
##	[1297]	1849.479	1848.602	1912.027	2197.529	2437.373	2495.118
##	[1303]	2507.093	2502.613	2492.180	2484.517	2555.886	2868.690
##	[1309]	3198.224	3276.925	3269.469	3264.131	3289.136	3286.241
##	[1315]	3622.279	3813.061	3805.883	3961.834	4172.654	4322.733
##	[1321]	4495.732	4724.836	4900.818	4919.023	4911.061	5010.095
##	[1327]	5249.389	5665.774	6208.879	7015.029	7928.407	8463.193
##	[1333]	9330.902	9514.642	9592.865	10088.851	11167.695	12435.696
##	[1339]	12940.167	13078.865	13141.213	13166.167	13162.937	13176.430
##	[1345]	13166.778	13161.165	13195.456	13364.261	13368.636	13391.940
##	[1351]	13574.563	13678.029	13670.064	13660.804	13805.153	14185.382
##	[1357]	14474.213	14536.429	14527.930	14677.868	14855.867	15066.760
##	[1363]	15165.518	15190.519	15191.213	15293.191	15564.033	15617.988
##	[1369]	15614.996	15634.464	15640.542	15637.554	15848.033	16155.439
##	[1375]	16219.822	16214.705	16207.693	16207.693	16198.359	16190.011
##	[1381]	16214.578	16278.560	16271.949	16273.464	16365.716	16529.049
##	[1387]	16563.224	16565.192	16558.993	16553.712	16568.139	16630.910
##	[1393]	16933.725	17331.280	17633.278	17812.686	17894.478	17910.998
##	[1399]	17906.559	17937.114	18061.172	18127.043	18149.536	18151.649
##	[1405]	18143.103	18132.553	18125.830	18132.875	18940.296	20423.925

##	[1411]	20750.434	20755.469	21238.388	22157.389	22959.072	23224.462
##	[1417]	23232.778	23222.406	23228.436	23262.727	23254.052	23584.858
##	[1423]	23936.318	24124.652	24251.617	24295.537	24290.549	24282.240
##	[1429]	24279.729	24269.302	24263.697	24267.618	24326.269	24382.140
##	[1435]	24382.140	24376.800	24367.391	24367.814	24372.338	24433.355
##	[1441]	24492.006	24595.875	24727.807	24868.623	24929.069	24938.322
##	[1447]	24931.937	24926.195	24923.980	24954.568	24988.373	25022.312
##	[1453]	25079.305	25203.363	25440.983	25583.143	25600.686	25593.686
##	[1459]	25594.543	25586.692	25582.970	25576.214	25570.274	25575.837
##	[1465]	25580.190	25602.172	25629.016	25632.066	25627.061	25616.915
##	[1471]	25618.347	25623.049	25630.489	25636.874	25639.420	25648.352
##	[1477]	25654.318	25657.143	25654.871	25655.166	25656.663	25660.616
##	[1483]	25661.413	25667.758	25673.735	25672.383	25671.566	25649.429
##	[1489]	25633.670	25636.287	25630.780	25618.780	25575.804	25558.563
##	[1495]	25554.033	25552.230	25499.740	25473.135	25467.289	25396.953
##	[1501]	25101.388	24861.935	24813.490	24810.946	24820.441	24831.754
##	[1507]	24843.941	24764.169	24447.279	24116.908	24038.208	24042.769
##	[1513]	24041.130	24010.537	24008.768	23665.818	23469.137	23473.629
##	[1519]	23312.561	23091.510	22933.992	22758.721	22523.858	22341.297
##	[1525]	22324.646	22326.248	22222.204	21980.698	21562.560	21019.455
##	[1531]	20212.034	19293.215	18754.797	17885.414	17703.004	17626.949
##	[1537]	17130.962	16050.364	14779.793	14276.140	14136.998	14075.527
##	[1543]	14046.586	14048.143	14033.832	14042.628	14047.817	14008.409
##	[1549]	13839.604	13834.785	13808.213	13624.793	13520.924	13529.292
##	[1555]	13536.101	13392.195	13012.410	12722.722	12658.339	12666.395
##	[1561]	12519.421	12342.199	12132.576	12037.166	12012.598	12014.660
##	[1567]	11911.127	11641.761	11586.624	11593.204	11572.496	11565.023
##	[1573]	11566.830	11353.321	11045.511	10979.947	10984.168	10992.077
##	[1579]	10994.647	11004.879	11012.773	10986.138	10925.120	10935.079
##	[1585]	10937.196	10846.185	10684.820	10650.232	10648.637	10654.836
##	[1591]	10664.104	10653.025	10589.840	10288.265	9892.041	9591.796
##	[1597]	9412.388	9331.453	9318.620	9321.306	9292.051	9165.926
##	[1603]	9100.055	9075.444	9073.744	9080.617	9090.714	9097.889
##	[1609]	9090.845	8283.837	6797.313	6471.701	6465.111	5980.863
##	[1615]	5060.227	4258.997	3994.041	3986.563	3993.586	3984.288
##	[1621]	3947.830	3956.948	3626.142	3275.952	3087.165	2962.368
##	[1627]	2917.630	2921.741	2928.839	2929.637	2940.063	2945.669
##	[1633]	2939.994	2881.343	2827.540	2827.540	2832.880	2843.186
##	[1639]	2842.762	2839.076	2776.305	2717.201	2614.573	2484.354
##	[1645]	2346.108	2286.459	2278.083	2286.636	2294.092	2294.976
##	[1651]	2264.831	2231.480	2200.889	2147.528	2022.200	1785.023
##	[1657]	1642.863	1624.050	1631.050	1631.050	1638.900	1642.622
##	[1663]	1651.446	1660.072	1661.312	1664.220	1649.642	1629.973
##	[1669]	1630.816	1640.259	1650.405	1657.626	1657.183	1658.513
##	[1675]	1660.680	1663.251	1661.921	1661.921	1660.650	1664.636
##	[1681]	1672.732	1681.080	1683.048	1682.251	1681.010	1684.199
##	[1687]	1685.595	1685.998	1685.998	1688.893	1684.807	1691.585
##	[1693]	1698.009	1705.216	1713.156	1714.549	1713.004	1715.771
##	[1699]	1720.946	1725.158	1730.316	1738.211	1738.717	1730.657
##	[1705]	1721.670	1714.902	1714.021	1711.665	1721.821	1723.336
##	[1711]	1724.607	1722.036	1724.930	1731.464	1738.686	1742.473
##	[1717]	1747.218	1753.571	1756.257	1760.477	1770.708	1779.477
##	[1723]	1783.917	1792.127	1800.035	1801.749	1810.228	1816.950
##	[1729]	1821.280	1821.280	1818.664	1817.109	1819.586	1819.950



##	[1735]	1819.556	1819.103	1819.103	1819.556	1821.310	1821.310
##	[1741]	1823.063	1823.960	1821.843	1824.952	1824.952	1825.769
##	[1747]	1823.083	1822.266	1826.930	1828.230	1826.556	1826.930
##	[1753]	1825.111	1825.111	1823.557	1825.574	1826.028	1823.910
##	[1759]	1823.497	1824.334	1824.777	1824.324	1825.998	1825.998
##	[1765]	1825.998	1826.895	1827.771	1830.596	1831.807	1833.401
##	[1771]	1833.815	1834.219	1838.005	1841.353	1845.240	1845.643
##	[1777]	1848.095	1848.991	1848.538	1848.085	1847.631	1845.918
##	[1783]	1848.882	1847.552	1846.222	1846.675	1845.434	1846.291
##	[1789]	1847.128	1849.146	1850.387	1847.492	1844.921	1844.518
##	[1795]	1842.126	1842.126	1841.230	1842.126	1841.693	1842.550
##	[1801]	1843.850	1842.550	1839.455	1833.396	1833.396	1834.253
##	[1807]	1835.927	1832.658	1827.541	1823.655	1819.055	1816.344
##	[1813]	1811.905	1815.627	1814.386	1814.002	1809.219	1806.394
##	[1819]	1802.283	1801.546	1805.268	1807.435	1804.924	1799.807
##	[1825]	1800.703	1796.040	1790.599	1790.205	1790.638	1793.603
##	[1831]	1795.770	1793.199	1791.082	1790.265	1790.265	1790.265
##	[1837]	1788.511	1789.388	1789.388	1788.974	1788.974	1787.006
##	[1843]	1784.495	1782.477	1781.177	1777.092	1778.362	1776.648
##	[1849]	1776.195	1776.195	1777.072	1777.525	1776.628	1776.175
##	[1855]	1774.875	1774.875	1770.545	1767.650	1768.921	1768.527
##	[1861]	1767.670	1768.114	1766.784	1767.680	1769.434	1770.764
##	[1867]	1771.581	1772.851	1770.684	1770.684	1768.517	1765.947
##	[1873]	1766.400	1767.297	1765.967	1763.396	1761.642	1760.008
##	[1879]	1761.279	1762.992	1762.992	1763.426	1760.078	1759.664
##	[1885]	1762.629	1763.869	1763.869	1767.137	1769.305	1770.201
##	[1891]	1769.758	1772.090	1772.533	1776.255	1778.273	1780.843
##	[1897]	1782.762	1785.656	1787.131	1791.018	1793.085	1794.839
##	[1903]	1794.042	1792.712	1792.712	1791.835	1791.835	1790.938
##	[1909]	1790.938	1787.974	1787.580	1786.310	1788.427	1788.427
##	[1915]	1787.994	1789.324	1790.654	1792.821	1791.924	1792.781
##	[1921]	1793.225	1793.225	1792.771	1791.441	1792.338	1792.338
##	[1927]	1792.338	1792.338	1792.338	1792.791	1794.545	1797.998
##	[1933]	1799.149	1800.783	1803.608	1804.405	1801.137	1797.415
##	[1939]	1796.518	1793.170	1790.958	1789.204	1784.421	1783.644
##	[1945]	1784.077	1784.894	1784.077	1785.946	1788.517	1788.073
##	[1951]	1787.196	1789.767	1792.218	1793.280	1793.280	1796.105
##	[1957]	1797.435	1796.538	1790.556	1782.212	1773.955	1765.661
##	[1963]	1756.544	1748.488	1745.619	1737.684	1727.978	1724.709
##	[1969]	1720.165	1718.197	1710.824	1703.452	1695.660	1696.042
##	[1975]	1689.983	1683.673	1691.989	1683.055	1777.018	2143.000
##	[1981]	2431.388	2476.076	2469.496	2495.688	2546.599	2557.084
##	[1987]	2556.136	2560.069	2557.573	2554.081	2552.401	2544.287
##	[1993]	2540.692	2545.619	2543.710	2540.225	2530.504	2531.401
##	[1999]	2520.974	2514.395	2504.859	2739.823	3518.869	3817.757
##	[2005]	3813.870	4073.532	4453.761	4508.694	4506.321	4502.332
##	[2011]	4503.723	4608.410	4798.844	5016.208	5139.369	5212.823
##	[2017]	5206.450	5210.336	5206.628	5202.481	5200.812	5195.695
##	[2023]	5228.116	5425.427	5592.001	5726.825	7292.422	8067.257
##	[2029]	8114.456	9973.939	12542.068	14187.540	15069.504	15115.270
##	[2035]	15210.367	15438.297	15447.116	15438.437	15438.437	15427.929
##	[2041]	15457.148	15589.920	16343.461	17929.351	18276.661	18271.208
##	[2047]	18264.922	18343.192	18716.379	19156.854	19550.691	19922.165
##	[2053]	20122.614	20157.802	20152.814	20148.474	20165.125	20172.776

##	[2059]	20177.486	20347.320	20749.358	20955.680	20966.561	20965.724
##	[2065]	20955.418	20944.910	20938.557	20933.673	20926.197	20923.884
##	[2071]	20922.286	20924.862	20928.795	20920.219	20910.261	20901.350
##	[2077]	20893.385	20892.568	21023.632	21245.968	21237.295	21227.517
##	[2083]	21222.973	21218.412	21210.873	21269.523	21661.407	22102.325
##	[2089]	22337.288	22343.437	22332.882	22341.702	22409.326	22537.879
##	[2095]	22651.432	22851.167	23205.833	23362.136	23352.432	23344.920
##	[2101]	23335.858	23328.007	23319.238	23375.109	23405.241	23404.818
##	[2107]	23396.877	23390.258	23435.390	23428.720	23425.047	23431.401
##	[2113]	23494.585	23535.177	23574.769	23671.509	23765.472	23891.916
##	[2119]	24062.747	24225.101	24307.384	24299.261	24292.085	24285.332
##	[2125]	24345.313	24395.992	24405.148	24396.494	24386.398	24377.006
##	[2131]	24366.452	24364.285	24364.285	24362.770	24354.994	24348.216
##	[2137]	24349.487	24346.032	24339.282	24331.626	24330.888	24327.096
##	[2143]	24338.005	24362.457	24376.883	24370.574	24367.847	24386.334
##	[2149]	24381.445	24372.019	24365.485	24361.060	24351.230	24341.578
##	[2155]	24341.951	24335.096	24326.703	24317.956	24311.178	24318.782
##	[2161]	24319.572	24318.687	24316.962	24322.053	24334.927	24336.477
##	[2167]	24334.692	24334.252	24332.857	24338.298	24332.061	24374.538
##	[2173]	24479.075	24573.145	24666.619	24690.065	24688.165	24671.638
##	[2179]	24672.025	24574.340	24208.811	23910.365	23881.325	23918.874
##	[2185]	23917.184	23870.993	23852.711	23843.701	23832.276	23825.119
##	[2191]	23819.515	23812.694	23813.391	23819.437	23815.327	23813.454
##	[2197]	23811.729	23811.619	23803.710	23806.707	23812.045	23822.478
##	[2203]	23587.071	22808.024	22515.196	22525.141	22265.883	21883.203
##	[2209]	21826.596	21832.690	21841.797	21840.072	21739.571	21553.442
##	[2215]	21336.433	21210.307	21139.424	21148.248	21146.574	21154.005
##	[2221]	21161.021	21161.993	21162.671	21125.810	20927.378	20761.138
##	[2227]	20622.593	19059.148	18288.424	18240.103	16376.735	13803.822
##	[2233]	12154.628	11275.235	11232.039	11139.060	10909.377	10901.454
##	[2239]	10908.165	10907.289	10912.679	10883.460	10747.580	9994.796
##	[2245]	8411.416	8065.288	8072.494	8080.295	8001.168	7628.394
##	[2251]	7185.025	6791.641	6419.291	6217.511	6180.649	6185.194
##	[2257]	6188.324	6170.118	6166.353	6163.237	5992.133	5593.059
##	[2263]	5387.594	5376.270	5375.866	5383.208	5391.145	5396.168
##	[2269]	5402.806	5410.725	5413.038	5414.232	5412.927	5411.565
##	[2275]	5417.973	5427.035	5435.522	5445.161	5447.278	5317.425
##	[2281]	5094.656	5102.452	5108.598	5114.039	5120.618	5130.324
##	[2287]	5071.220	4678.096	4237.621	4003.111	3993.615	4000.821
##	[2293]	3990.731	3924.407	3796.308	3682.302	3483.443	3127.447
##	[2299]	2972.858	2980.444	2990.921	3000.426	3007.843	3016.159
##	[2305]	2960.682	2931.426	2931.426	2940.698	2947.317	2903.081
##	[2311]	2908.421	2915.059	2909.915	2848.001	2807.410	2768.271
##	[2317]	2672.861	2578.001	2451.558	2279.829	2115.802	2032.249
##	[2323]	2038.254	2043.676	2049.986	1989.582	1938.902	1929.747
##	[2329]	1938.853	1949.403	1958.795	1967.182	1968.896	1968.059
##	[2335]	1971.247	1979.900	1987.122	1987.122	1992.967	2002.543
##	[2341]	2009.765	2012.097	2020.673	2009.764	1987.928	1976.849
##	[2347]	1983.159	1987.639	1970.393	1977.853	1987.279	1992.955
##	[2353]	1998.710	2008.088	2017.306	2020.201	2029.174	2035.893
##	[2359]	2042.070	2047.991	2048.485	2058.206	2066.925	2077.397
##	[2365]	2079.307	2071.663	2069.095	2073.375	2079.800	2079.800
##	[2371]	2076.452	2083.840	2050.488	1952.114	1864.655	1769.962
##	[2377]	1750.821	1759.031	1768.079	1776.626	1779.018	1776.851

##	[2383]	1784.398	1766.238	1737.437	1712.482	1706.128	1715.254
##	[2389]	1722.249	1730.981	1741.530	1750.627	1760.457	1767.874
##	[2395]	1768.771	1766.803	1770.989	1779.024	1786.688	1794.597
##	[2401]	1800.697	1799.546	1795.824	1795.391	1792.705	1790.134
##	[2407]	1789.681	1789.681	1791.699	1791.699	1789.532	1786.568
##	[2413]	1790.354	1791.625	1792.048	1792.786	1793.179	1790.609
##	[2419]	1791.505	1793.623	1791.456	1793.573	1798.356	1801.899
##	[2425]	1803.374	1806.563	1808.381	1809.936	1812.004	1812.437
##	[2431]	1816.522	1820.409	1825.192	1825.192	1823.438	1822.108
##	[2437]	1822.562	1824.315	1823.862	1826.687	1827.120	1829.667
##	[2443]	1829.667	1831.939	1832.332	1831.889	1833.159	1832.706
##	[2449]	1834.823	1834.823	1836.124	1837.305	1835.551	1834.310
##	[2455]	1835.641	1838.211	1839.108	1841.619	1845.341	1843.667
##	[2461]	1845.420	1847.134	1845.380	1845.824	1846.720	1848.838
##	[2467]	1847.363	1847.363	1846.122	1845.669	1845.669	1847.383
##	[2473]	1848.200	1847.766	1847.313	1846.132	1846.576	1846.162
##	[2479]	1847.059	1847.512	1847.099	1847.099	1846.675	1850.760
##	[2485]	1850.760	1850.760	1849.430	1848.554	1847.403	1846.959
##	[2491]	1846.506	1848.100	1849.281	1847.727	1845.216	1840.776
##	[2497]	1840.776	1839.063	1839.939	1839.939	1842.510	1840.756
##	[2503]	1839.880	1840.756	1836.770	1839.341	1837.224	1834.892
##	[2509]	1832.725	1831.908	1831.454	1831.031	1831.031	1830.617
##	[2515]	1829.761	1828.884	1828.884	1824.798	1820.912	1819.582
##	[2521]	1817.131	1815.980	1816.393	1818.964	1820.717	1820.284
##	[2527]	1819.870	1819.870	1817.703	1815.133	1814.236	1812.119
##	[2533]	1814.286	1812.168	1814.335	1813.902	1814.355	1813.912
##	[2539]	1814.809	1813.972	1814.868	1814.445	1816.198	1816.198
##	[2545]	1817.055	1818.326	1816.159	1814.485	1814.485	1814.061
##	[2551]	1814.061	1812.308	1813.608	1808.825	1806.707	1807.584
##	[2557]	1806.707	1805.407	1807.524	1808.765	1809.188	1809.642
##	[2563]	1807.888	1809.188	1809.188	1810.862	1811.620	1813.439
##	[2569]	1817.550	1819.941	1825.058	1826.239	1827.480	1827.026
##	[2575]	1829.991	1832.442	1833.712	1834.136	1832.462	1832.895
##	[2581]	1831.625	1832.058	1832.058	1835.022	1837.533	1836.203
##	[2587]	1834.490	1833.368	1831.615	1833.249	1833.682	1833.229
##	[2593]	1833.229	1831.899	1832.332	1831.436	1833.827	1835.098
##	[2599]	1835.994	1838.161	1838.161	1839.038	1840.189	1842.581
##	[2605]	1843.458	1847.444	1848.684	1845.416	1847.130	1848.460
##	[2611]	1848.066	1850.233	1852.301	1851.060	1849.386	1848.549
##	[2617]	1850.567	1850.173	1852.291	1848.943	1843.955	1843.955
##	[2623]	1843.078	1842.182	1841.748	1842.545	1842.545	1843.756
##	[2629]	1844.593	1844.593	1845.036	1843.283	1844.180	1843.283
##	[2635]	1844.040	1844.897	1844.897	1843.567	1839.128	1831.448
##	[2641]	1824.670	1815.608	1808.591	1801.652	1800.471	1792.492
##	[2647]	1784.436	1775.611	1765.638	1756.385	1748.433	1739.056
##	[2653]	1739.056	1730.758	1724.397	1721.049	1716.922	1721.385
##	[2659]	1712.133	1701.976	1694.306	1687.669	1684.037	1677.631
##	[2665]	1673.262	1662.829	1654.535	1653.533	1646.678	1642.896
##	[2671]	1671.271	1690.622	1681.650	1677.050	1669.109	1659.406
##	[2677]	1655.079	1645.226	1637.672	1641.594	1660.492	1727.302
##	[2683]	1842.184	1955.924	2002.267	1996.826	2090.682	2358.415
##	[2689]	2523.057	2569.974	2580.658	2577.346	2568.954	2560.806
##	[2695]	2582.666	2575.909	2916.386	3255.508	3272.870	3262.812
##	[2701]	3262.812	3252.441	3245.425	3236.924	3228.107	3222.038

##	[2707]	3231.193	3319.253	3564.519	3674.031	3729.509	3777.375
##	[2713]	3769.298	3764.859	3757.181	3941.345	4370.798	4623.294
##	[2719]	4758.821	4784.053	4779.592	4792.095	4804.351	4797.529
##	[2725]	5160.327	5883.160	5978.454	5975.142	6132.918	6278.538
##	[2731]	6327.452	6357.151	6351.588	6432.974	6493.027	6482.600
##	[2737]	6485.292	6512.344	6504.134	6596.660	6730.269	6735.845
##	[2743]	6727.227	6726.331	6741.526	6911.359	7094.666	7176.872
##	[2749]	7215.643	7221.791	7221.329	7222.210	7216.757	7206.896
##	[2755]	7202.408	7222.366	7309.695	7421.455	7925.108	9387.008
##	[2761]	10310.312	10330.541	10460.306	10983.300	11371.486	11388.133
##	[2767]	11379.185	11372.003	11549.619	12293.008	12537.762	12536.008
##	[2773]	12709.007	12916.979	13090.169	13216.612	13235.647	13233.926
##	[2779]	13226.487	13228.552	13224.331	13222.371	13291.625	13283.259
##	[2785]	13344.276	13888.985	14373.234	14683.152	14873.587	14878.730
##	[2791]	14880.007	15098.065	15455.885	15572.344	15563.843	15563.360
##	[2797]	15573.412	15565.155	15560.934	15566.511	15582.427	15572.983
##	[2803]	15570.866	15572.106	15565.303	15555.202	15549.596	15540.499
##	[2809]	15537.584	15529.290	15519.144	15511.877	15501.731	15497.845
##	[2815]	15494.062	15497.041	15562.632	15605.110	15635.996	15626.387
##	[2821]	15619.199	15629.104	15632.151	15623.894	15616.443	15612.332
##	[2827]	15606.563	15596.949	15600.065	15693.921	15924.931	16068.836
##	[2833]	16062.887	16083.337	16142.884	16220.596	16225.956	16219.127
##	[2839]	16217.065	16224.894	16242.183	16258.391	16266.969	16275.176
##	[2845]	16278.804	16275.241	16306.240	16400.682	16459.983	16529.061
##	[2851]	16591.674	16643.546	16646.434	16645.253	16649.513	16729.328
##	[2857]	16865.804	16998.031	17064.451	17113.295	17123.860	17127.189
##	[2863]	17123.455	17169.707	17248.749	17276.423	17276.615	17274.808
##	[2869]	17318.398	17407.863	17471.698	17448.791	17419.466	17428.892
##	[2875]	17428.892	17430.030	17429.955	17427.799	17428.679	17428.029
##	[2881]	17413.596	17384.326	17317.930	17203.924	17090.608	17036.590
##	[2887]	17031.874	16932.678	16656.555	16483.003	16429.334	16413.793
##	[2893]	16417.558	16420.273	16421.162	16393.918	16397.001	16054.904
##	[2899]	15710.794	15695.146	15704.327	15704.327	15714.699	15720.897
##	[2905]	15729.832	15739.103	15749.611	15740.455	15653.213	15412.033
##	[2911]	15304.233	15247.605	15198.438	15206.939	15211.378	15219.056
##	[2917]	15036.192	14607.173	14354.677	14223.236	14202.333	14208.124
##	[2923]	14197.215	14182.622	14187.850	13821.330	13094.775	12999.482
##	[2929]	13004.960	12846.731	12702.382	12654.708	12625.906	12631.469
##	[2935]	12548.329	12488.680	12497.353	12493.420	12466.369	12473.722
##	[2941]	12381.196	12248.001	12240.257	12249.298	12248.441	12231.493
##	[2947]	12058.835	11875.527	11791.403	11752.633	11743.914	11743.165
##	[2953]	11737.167	11743.920	11753.338	11761.712	11741.755	11653.981
##	[2959]	11538.435	11034.368	9569.957	8643.898	8622.035	8492.269
##	[2965]	7966.246	7575.549	7558.903	7568.294	7576.686	7401.138
##	[2971]	6659.079	6413.488	6414.345	6240.549	6032.154	5856.846
##	[2977]	5730.403	5712.265	5713.552	5722.322	5720.661	5723.611
##	[2983]	5727.285	5654.488	5659.266	5595.678	5046.639	4561.150
##	[2989]	4252.503	4064.823	4058.469	4055.175	3835.846	3478.026
##	[2995]	3362.444	3372.274	3373.655	3364.499	3373.633	3377.420
##	[3001]	3369.273	3352.904	3362.348	3364.918	3366.248	3369.265
##	[3007]	3378.922	3383.228	3393.202	3399.386	3406.803	3415.618
##	[3013]	3425.396	3432.972	3435.184	3439.784	3438.479	3374.601
##	[3019]	3333.000	3304.182	3312.914	3321.283	3316.366	3314.589
##	[3025]	3322.009	3328.603	3331.474	3339.409	3349.467	3347.652

##	[3031]	3254.672	3022.392	2877.609	2885.312	2863.966	2803.148
##	[3037]	2726.647	2721.731	2728.136	2730.632	2724.671	2712.552
##	[3043]	2704.018	2704.501	2705.882	2711.360	2716.518	2693.498
##	[3049]	2607.556	2553.890	2494.342	2440.105	2397.485	2404.428
##	[3055]	2407.323	2412.661	2341.777	2205.686	2076.256	2005.372
##	[3061]	1964.480	1963.175	1970.087	1977.494	1931.242	1858.191
##	[3067]	1834.887	1843.798	1851.388	1813.239	1732.303	1673.925
##	[3073]	1668.013	1678.440	1678.440	1684.793	1692.926	1703.158
##	[3079]	1712.535	1721.508	1730.983	1741.041	1748.842	1750.595
##	[3085]	1749.718	1750.152	1754.862	1760.933	1767.603	1776.428
##	[3091]	1786.215	1796.687	1802.442	1801.112	1808.089	1815.761
##	[3097]	1823.971	1827.260	1830.355	1832.448	1832.448	1833.325
##	[3103]	1832.882	1831.128	1831.532	1831.098	1830.202	1830.202
##	[3109]	1830.202	1831.502	1831.049	1831.502	1834.770	1832.438
##	[3115]	1832.015	1830.261	1832.428	1830.715	1827.890	1827.890
##	[3121]	1826.993	1825.693	1825.239	1826.540	1832.599	1835.050
##	[3127]	1837.442	1839.410	1839.410	1838.513	1836.396	1835.125
##	[3133]	1836.455	1836.002	1837.676	1839.430	1839.430	1841.183
##	[3139]	1841.183	1840.286	1841.143	1839.813	1841.567	1842.837
##	[3145]	1843.271	1841.676	1842.976	1844.531	1844.974	1844.974
##	[3151]	1844.974	1845.792	1848.756	1851.706	1851.262	1852.159
##	[3157]	1852.159	1853.833	1854.730	1859.393	1861.107	1861.501
##	[3163]	1862.622	1861.865	1859.698	1864.481	1865.278	1863.524
##	[3169]	1859.892	1859.075	1857.805	1857.805	1859.518	1859.518
##	[3175]	1861.153	1858.821	1860.938	1860.938	1860.041	1860.041
##	[3181]	1859.588	1861.755	1861.755	1861.755	1865.741	1868.532
##	[3187]	1868.532	1872.418	1874.092	1874.092	1874.969	1877.037
##	[3193]	1880.385	1882.552	1882.108	1882.108	1879.941	1879.488
##	[3199]	1878.591	1876.474	1877.804	1879.478	1878.601	1877.704
##	[3205]	1876.808	1876.808	1881.925	1880.251	1882.004	1880.704
##	[3211]	1881.158	1882.488	1882.488	1882.941	1885.058	1887.629
##	[3217]	1886.418	1886.418	1885.541	1885.541	1886.438	1887.768
##	[3223]	1889.039	1889.492	1889.935	1889.532	1891.285	1890.892
##	[3229]	1889.138	1888.695	1887.395	1886.951	1886.154	1884.520
##	[3235]	1881.172	1882.069	1884.236	1885.989	1885.546	1886.403
##	[3241]	1887.299	1888.117	1890.184	1887.613	1884.788	1883.892
##	[3247]	1883.892	1883.892	1886.462	1886.916	1891.001	1891.001
##	[3253]	1891.878	1892.331	1892.331	1892.331	1892.785	1892.331
##	[3259]	1895.296	1895.729	1894.832	1895.256	1893.985	1892.232
##	[3265]	1893.029	1895.361	1895.361	1894.917	1895.351	1897.419
##	[3271]	1894.848	1892.780	1889.591	1886.403	1886.403	1886.403
##	[3277]	1884.649	1882.482	1882.029	1882.482	1880.365	1877.176
##	[3283]	1873.908	1874.725	1871.760	1869.743	1865.198	1866.409
##	[3289]	1870.041	1868.711	1869.608	1870.061	1869.608	1867.854
##	[3295]	1869.184	1864.854	1863.260	1864.157	1864.934	1867.898
##	[3301]	1870.793	1870.793	1870.793	1870.793	1871.650	1871.650
##	[3307]	1870.016	1869.582	1868.686	1868.686	1868.242	1867.799
##	[3313]	1865.632	1860.968	1861.705	1863.459	1865.213	1863.045
##	[3319]	1865.213	1865.213	1862.642	1856.901	1849.548	1844.247
##	[3325]	1834.189	1823.948	1814.473	1812.082	1811.265	1802.123
##	[3331]	1801.639	1827.060	1852.078	1857.093	1847.484	1847.927
##	[3337]	1837.416	1837.368	1831.577	1823.598	1820.055	1816.512
##	[3343]	1810.667	1800.134	1897.898	2144.471	2236.093	2229.340
##	[3349]	2221.135	2214.951	2208.665	2200.929	2194.774	2202.696

##	[3355]	2248.060	2309.974	2360.653	2433.711	2564.374	2649.863
##	[3361]	2662.056	2652.458	2645.458	2640.963	2642.882	2637.347
##	[3367]	2627.032	2628.746	2620.023	2635.187	2870.064	3851.049
##	[3373]	4888.390	5222.260	5212.926	5209.100	5220.507	5226.537
##	[3379]	5243.183	5335.179	5357.749	5365.523	5391.715	5409.797
##	[3385]	5402.092	5398.780	5460.395	5480.353	5472.123	5463.061
##	[3391]	5459.175	5449.151	5447.833	5437.400	5432.920	5431.601
##	[3397]	5439.376	5620.054	5645.009	6042.129	6176.142	6165.835
##	[3403]	6158.156	6182.337	6289.053	6413.110	6433.560	6424.288
##	[3409]	6426.406	6416.980	6436.120	6538.916	6682.368	6707.369
##	[3415]	6697.648	6937.048	7187.261	7376.575	7500.632	7738.686
##	[3421]	8337.833	8643.072	8634.140	8678.233	8809.675	9031.567
##	[3427]	9474.159	10163.013	10567.911	10575.813	10567.139	10559.449
##	[3433]	10554.286	10547.200	10545.341	10538.458	10528.396	10792.455
##	[3439]	10953.912	10950.026	10948.305	10937.751	10932.867	10923.385
##	[3445]	10934.490	10978.349	11097.558	11198.856	11198.856	11356.632
##	[3451]	11447.731	11452.746	11454.523	11491.177	11576.666	11610.017
##	[3457]	11601.344	11591.187	11587.160	11741.296	11830.467	11838.093
##	[3463]	11896.905	12039.043	12046.373	12058.968	12169.604	12254.515
##	[3469]	12247.040	12238.510	12239.353	12241.027	12233.751	12304.946
##	[3475]	12457.780	12486.582	12476.623	12576.711	12684.698	13276.901
##	[3481]	13515.848	13509.671	13511.139	13549.152	13614.330	13629.034
##	[3487]	13622.537	13624.630	13644.521	13673.776	13694.775	13684.221
##	[3493]	13676.547	13667.710	13658.914	13653.159	13647.406	13640.322
##	[3499]	13629.895	13673.613	13759.102	13793.846	13794.708	13786.414
##	[3505]	13787.311	13781.001	13796.951	13819.584	13838.301	13888.779
##	[3511]	14035.752	14171.473	14164.667	14182.749	14309.401	14392.788
##	[3517]	14397.251	14394.680	14386.797	14376.482	14370.914	14367.390
##	[3523]	14380.176	14398.438	14401.575	14404.880	14404.814	14413.383
##	[3529]	14540.266	14698.788	14758.840	14750.777	14758.518	14763.589
##	[3535]	14748.063	14977.421	15426.924	15827.988	15955.001	15982.032
##	[3541]	15998.158	15995.391	15993.477	15991.700	16044.400	16048.831
##	[3547]	15890.031	15861.586	15925.116	15954.386	15953.321	15954.586
##	[3553]	15962.322	15967.660	15956.389	15913.193	15845.264	15787.155
##	[3559]	15708.356	15570.916	15478.789	15467.049	15473.752	15478.884
##	[3565]	15481.560	15480.792	15484.409	15492.970	15493.423	15496.989
##	[3571]	15480.793	15248.486	14267.098	13229.756	12893.769	12903.104
##	[3577]	12904.537	12893.495	12887.021	12865.258	12767.522	12741.843
##	[3583]	12732.768	12705.246	12688.001	12694.830	12698.594	12638.190
##	[3589]	12619.050	12626.423	12636.381	12640.711	12649.858	12648.725
##	[3595]	12658.261	12660.574	12662.789	12649.409	12466.458	12437.174
##	[3601]	12036.167	11901.377	11909.930	11918.053	11894.305	11788.033
##	[3607]	11663.118	11640.915	11650.187	11648.473	11655.328	11636.188
##	[3613]	11530.428	11385.222	11360.221	11369.489	11129.212	10877.669
##	[3619]	10691.319	10568.159	10329.681	9730.987	9424.852	9433.783
##	[3625]	9388.420	9254.014	9029.227	8587.453	7896.028	7494.094
##	[3631]	7487.946	7495.350	7503.463	7506.951	7517.002	7519.658
##	[3637]	7529.436	7538.602	7274.542	7111.755	7114.785	7114.054
##	[3643]	7122.855	7123.737	7132.786	7122.922	7082.784	6962.718
##	[3649]	6861.420	6860.209	6701.536	6608.684	6603.216	6599.764
##	[3655]	6562.668	6476.725	6443.374	6451.604	6461.760	6463.276
##	[3661]	6308.687	6220.414	6212.787	6152.735	6012.764	6005.433
##	[3667]	5994.552	5884.773	5801.132	5805.419	5812.275	5809.758
##	[3673]	5810.201	5817.871	5746.323	5595.820	5562.933	5572.438

##	[3679]	5471.533	5363.960	4771.313	4531.037	4539.784	4541.948
##	[3685]	4507.204	4443.779	4432.039	4441.884	4443.478	4425.341
##	[3691]	4395.642	4373.009	4380.215	4386.560	4394.953	4404.173
##	[3697]	4409.928	4419.133	4428.236	4436.496	4395.348	4308.106
##	[3703]	4272.918	4271.180	4276.963	4276.963	4283.272	4266.141
##	[3709]	4246.019	4225.284	4175.703	4028.276	3893.000	3900.249
##	[3715]	3883.436	3761.902	3681.410	3676.493	3679.064	3689.115
##	[3721]	3698.976	3706.099	3711.296	3704.695	3694.209	3696.827
##	[3727]	3703.136	3712.546	3709.565	3582.683	3424.978	3372.434
##	[3733]	3377.438	3343.882	3315.960	3325.141	3104.949	2652.936
##	[3739]	2261.929	2137.131	2113.321	2105.991	2111.867	2118.220
##	[3745]	2127.173	2082.435	1976.698	1887.251	1825.668	1765.997
##	[3751]	1744.528	1750.063	1759.170	1760.844	1762.518	1764.535
##	[3757]	1761.571	1766.729	1772.829	1776.502	1780.829	1783.381
##	[3763]	1781.627	1784.522	1788.064	1791.517	1793.635	1797.720
##	[3769]	1798.577	1795.613	1802.524	1807.188	1806.735	1809.306
##	[3775]	1808.409	1810.980	1811.423	1812.574	1814.965	1811.777
##	[3781]	1815.140	1821.778	1821.778	1823.078	1819.969	1819.969
##	[3787]	1819.969	1817.004	1815.794	1811.792	1810.582	1806.142
##	[3793]	1805.265	1804.025	1806.920	1807.816	1808.230	1805.659
##	[3799]	1811.718	1814.827	1819.610	1823.940	1827.288	1828.588
##	[3805]	1827.712	1828.608	1827.308	1825.714	1825.300	1823.547
##	[3811]	1824.384	1825.201	1822.869	1824.503	1824.927	1825.803
##	[3817]	1824.927	1823.686	1825.016	1824.119	1824.119	1824.119
##	[3823]	1821.155	1821.155	1818.988	1820.702	1823.213	1825.664
##	[3829]	1827.418	1827.821	1825.250	1822.680	1823.950	1824.827
##	[3835]	1826.501	1826.048	1828.215	1828.668	1829.565	1829.565
##	[3841]	1829.998	1829.998	1833.346	1833.346	1838.204	1839.535
##	[3847]	1838.698	1838.244	1838.244	1837.348	1837.741	1836.471
##	[3853]	1836.471	1836.924	1839.495	1836.670	1835.793	1834.039
##	[3859]	1833.183	1833.183	1835.250	1835.703	1833.133	1830.308
##	[3865]	1829.914	1829.461	1827.867	1826.990	1827.886	1827.886
##	[3871]	1830.218	1828.703	1829.107	1829.107	1831.678	1834.363
##	[3877]	1836.117	1838.449	1835.938	1835.938	1834.344	1834.787
##	[3883]	1833.950	1833.053	1831.753	1831.310	1829.979	1829.979
##	[3889]	1829.526	1827.932	1826.602	1826.168	1827.379	1830.727
##	[3895]	1831.604	1831.604	1832.934	1831.180	1828.425	1828.001
##	[3901]	1826.821	1823.473	1824.329	1823.473	1824.349	1824.349
##	[3907]	1822.596	1819.053	1819.053	1816.542	1817.723	1816.826
##	[3913]	1816.826	1812.841	1813.294	1814.191	1813.294	1813.294
##	[3919]	1813.747	1813.747	1813.294	1811.176	1809.258	1807.988
##	[3925]	1802.686	1799.577	1799.577	1800.474	1799.617	1803.503
##	[3931]	1804.260	1803.050	1805.561	1810.000	1812.964	1812.068
##	[3937]	1812.944	1813.841	1816.805	1817.259	1817.259	1818.076
##	[3943]	1818.499	1818.076	1817.622	1817.169	1819.740	1823.726
##	[3949]	1826.296	1827.153	1829.171	1831.289	1832.125	1831.229
##	[3955]	1829.958	1828.284	1827.861	1829.072	1828.658	1829.535
##	[3961]	1831.169	1831.553	1833.885	1833.471	1831.354	1832.250
##	[3967]	1832.684	1832.241	1832.241	1832.241	1835.205	1832.634
##	[3973]	1832.191	1831.747	1829.177	1830.073	1827.906	1827.030
##	[3979]	1826.636	1825.395	1827.727	1827.727	1826.831	1831.270
##	[3985]	1830.826	1834.812	1836.142	1837.473	1838.683	1841.648
##	[3991]	1847.403	1850.367	1854.353	1852.719	1854.836	1853.122
##	[3997]	1853.122	1854.422	1855.240	1853.909	1854.786	1852.216

##	[4003]	1848.947	1845.226	1841.240	1838.848	1835.126	1832.441
##	[4009]	1834.459	1834.459	1832.864	1828.135	1826.541	1830.626
##	[4015]	1827.173	1821.327	1811.950	1803.134	1804.375	1793.898
##	[4021]	1789.316	1779.253	1772.260	1771.139	1761.721	1756.185
##	[4027]	1750.252	1746.940	1740.134	1729.820	1729.820	1724.455
##	[4033]	1733.755	1744.438	1751.040	1748.172	1738.310	1733.830
##	[4039]	1761.752	1796.043	1818.893	1836.436	1827.811	1818.540
##	[4045]	1836.940	1979.543	2177.949	2276.984	2266.904	2269.066
##	[4051]	2292.003	2287.903	2279.764	2271.085	2260.652	2257.304
##	[4057]	2251.195	2249.177	2240.616	2233.243	2230.279	2303.337
##	[4063]	2372.953	2365.046	2362.977	2373.864	2381.638	2375.560
##	[4069]	2405.692	2635.805	2720.814	2862.538	2894.545	2887.760
##	[4075]	3017.979	3055.148	3048.768	3038.612	3054.148	3097.251
##	[4081]	3121.061	3114.358	3113.482	3382.051	4128.882	4130.130
##	[4087]	4515.950	5681.546	6751.098	7381.986	7561.911	7559.476
##	[4093]	7566.954	7728.319	7819.418	7809.394	7811.171	7857.515
##	[4099]	7920.286	7923.918	8042.387	8148.530	8158.608	8151.830
##	[4105]	8143.638	8143.195	8144.829	8136.532	8135.854	8133.143
##	[4111]	8136.107	8133.118	8132.212	8122.821	8116.954	8107.683
##	[4117]	8107.229	8105.911	8097.238	8090.295	8080.349	8071.081
##	[4123]	8121.065	8238.703	8287.213	8284.036	8281.300	8430.049
##	[4129]	8727.812	8762.917	8758.696	8754.230	8877.113	9035.343
##	[4135]	9052.730	9065.822	9057.447	9056.952	9072.147	9061.841
##	[4141]	9069.162	9059.111	9051.738	9130.442	9130.815	9135.190
##	[4147]	9346.463	9955.648	10568.803	10915.426	10978.538	10976.521
##	[4153]	10990.066	11089.731	11232.334	11616.624	12304.322	12531.832
##	[4159]	12538.049	12535.433	12528.943	12660.039	12743.042	12734.368
##	[4165]	12757.775	13031.464	13712.876	14395.184	14664.836	14667.704
##	[4171]	14660.899	14708.311	14738.804	14731.998	14750.281	14857.154
##	[4177]	14990.282	15017.791	15011.212	15006.746	14999.371	14991.403
##	[4183]	15023.748	15051.697	15047.217	15047.217	15041.611	15041.611
##	[4189]	15031.665	15023.356	15014.250	15069.424	15295.181	15536.814
##	[4195]	15625.267	15615.775	15617.888	15621.278	15615.672	15607.595
##	[4201]	15637.727	15737.992	15872.004	15983.072	16026.931	16021.526
##	[4207]	16050.589	16148.274	16272.631	16378.264	16409.232	16409.188
##	[4213]	16405.185	16398.702	16388.153	16411.835	16424.587	16424.472
##	[4219]	16429.177	16429.610	16430.500	16446.406	16471.664	16484.874
##	[4225]	16487.579	16487.461	16488.252	16493.742	16488.381	16510.567
##	[4231]	16521.762	16516.754	16514.262	16501.439	16481.412	16464.957
##	[4237]	16461.292	16461.052	16455.060	16419.229	16378.879	16345.657
##	[4243]	16318.503	16320.329	16324.817	16306.417	16154.470	15950.273
##	[4249]	15842.856	15847.330	15839.247	15807.061	15804.287	15807.134
##	[4255]	15808.124	15808.969	15802.472	15801.767	15795.544	15798.947
##	[4261]	15808.074	15806.599	15729.320	15654.922	15660.959	15663.403
##	[4267]	15651.758	15643.541	15651.213	15622.411	15392.298	15308.187
##	[4273]	15168.215	15139.397	15144.264	15011.928	14973.005	14980.242
##	[4279]	14990.398	14976.615	14934.310	14911.317	14919.614	14919.614
##	[4285]	14651.881	13905.947	13902.013	13517.091	12350.657	11279.352
##	[4291]	10647.586	10468.439	10471.751	10464.706	10301.009	10205.825
##	[4297]	10213.338	10208.372	10160.275	10096.687	10097.140	9977.854
##	[4303]	9875.058	9864.981	9867.538	9872.701	9871.027	9871.904
##	[4309]	9881.955	9885.318	9891.377	9890.924	9893.509	9893.558
##	[4315]	9901.236	9909.788	9916.893	9914.775	9912.207	9918.763
##	[4321]	9922.358	9930.137	9938.527	9891.115	9777.562	9730.322



##	[4327]	9737.500	9740.955	9587.422	9285.220	9247.783	9249.179
##	[4333]	9252.524	9131.275	8973.046	8953.905	8939.059	8947.877
##	[4339]	8948.825	8931.877	8941.287	8932.212	8941.366	8949.162
##	[4345]	8871.336	8871.820	8866.568	8652.400	8042.761	7430.060
##	[4351]	7082.540	7018.994	7020.589	7006.600	6905.695	6761.417
##	[4357]	6377.541	5689.843	5460.365	5454.571	5457.601	5461.580
##	[4363]	5330.061	5247.855	5256.952	5233.141	4959.453	4273.601
##	[4369]	3592.189	3323.434	3319.669	3325.618	3275.242	3243.972
##	[4375]	3250.778	3229.669	3124.470	2989.175	2962.937	2970.393
##	[4381]	2973.738	2979.598	2987.989	2957.397	2927.775	2930.925
##	[4387]	2930.925	2936.087	2936.087	2944.280	2953.889	2960.425
##	[4393]	2903.083	2676.430	2432.679	2346.737	2355.353	2355.406
##	[4399]	2351.120	2355.849	2364.349	2334.651	2234.839	2101.231
##	[4405]	1992.131	1951.540	1960.055	1933.816	1837.283	1714.794
##	[4411]	1610.491	1580.793	1584.185	1593.351	1601.428	1611.977
##	[4417]	1592.182	1583.257	1593.203	1596.891	1596.457	1604.714
##	[4423]	1592.533	1577.338	1572.875	1573.358	1583.791	1589.373
##	[4429]	1587.305	1595.535	1575.296	1570.330	1572.723	1578.710
##	[4435]	1583.051	1590.721	1596.588	1600.296	1607.129	1614.637
##	[4441]	1621.649	1626.378	1635.853	1644.194	1651.849	1654.879
##	[4447]	1656.179	1666.420	1671.314	1678.900	1681.611	1689.286
##	[4453]	1699.431	1706.304	1710.416	1719.859	1728.117	1734.997
##	[4459]	1744.636	1750.121	1751.916	1749.345	1752.031	1753.800
##	[4465]	1757.686	1761.672	1764.567	1768.289	1769.185	1770.042
##	[4471]	1769.589	1769.589	1767.422	1766.092	1766.988	1766.635
##	[4477]	1767.038	1767.038	1767.935	1767.935	1767.935	1768.348
##	[4483]	1769.205	1768.388	1768.822	1769.698	1769.245	1772.788
##	[4489]	1772.334	1772.334	1772.334	1771.911	1774.028	1774.028
##	[4495]	1774.925	1778.557	1780.889	1783.400	1787.485	1787.909
##	[4501]	1789.149	1786.185	1785.408	1785.408	1788.756	1792.543
##	[4507]	1796.429	1796.035	1796.489	1795.592	1797.346	1795.592
##	[4513]	1796.045	1797.719	1798.143	1799.413	1799.837	1800.250
##	[4519]	1801.067	1804.954	1806.194	1809.542	1809.956	1808.715
##	[4525]	1808.262	1807.365	1806.508	1808.262	1811.530	1814.560
##	[4531]	1816.428	1820.514	1822.068	1824.824	1824.400	1824.854
##	[4537]	1823.643	1822.432	1821.989	1821.989	1823.289	1823.732
##	[4543]	1825.486	1826.383	1826.816	1826.816	1823.627	1821.993
##	[4549]	1823.174	1823.174	1822.277	1823.174	1822.337	1820.743
##	[4555]	1821.639	1822.457	1825.027	1826.781	1828.898	1832.166
##	[4561]	1831.743	1833.497	1836.008	1837.761	1837.761	1836.521
##	[4567]	1839.091	1841.662	1843.137	1842.684	1841.787	1840.113
##	[4573]	1841.413	1842.210	1843.391	1840.202	1841.757	1841.324
##	[4579]	1842.594	1843.037	1842.594	1846.679	1849.435	1848.194
##	[4585]	1845.624	1847.298	1848.174	1848.618	1848.184	1847.731
##	[4591]	1846.914	1845.614	1847.288	1847.701	1848.598	1849.415
##	[4597]	1848.115	1847.278	1845.948	1846.391	1846.824	1847.258
##	[4603]	1844.433	1839.316	1839.729	1836.042	1834.328	1835.658
##	[4609]	1833.207	1832.430	1834.104	1831.936	1831.936	1831.936
##	[4615]	1831.503	1832.803	1831.473	1832.370	1835.718	1835.718
##	[4621]	1836.575	1837.451	1838.782	1840.082	1837.915	1837.461
##	[4627]	1837.905	1837.008	1838.338	1840.849	1841.746	1844.930
##	[4633]	1848.562	1851.592	1855.578	1857.331	1859.005	1863.445
##	[4639]	1864.596	1868.317	1870.828	1870.828	1871.262	1870.828
##	[4645]	1870.425	1870.868	1872.622	1870.908	1870.011	1870.908

##	[4651]	1873.872	1877.220	1877.220	1876.323	1877.564	1880.459
##	[4657]	1880.459	1879.622	1882.133	1882.576	1886.208	1890.872
##	[4663]	1891.689	1893.443	1896.337	1895.904	1895.460	1893.747
##	[4669]	1891.579	1890.683	1890.683	1889.806	1889.806	1891.973
##	[4675]	1893.303	1891.973	1894.659	1894.255	1894.255	1893.802
##	[4681]	1893.349	1892.452	1892.452	1891.181	1889.667	1890.110
##	[4687]	1888.810	1887.933	1884.744	1883.444	1884.714	1881.685
##	[4693]	1881.271	1878.003	1875.108	1871.760	1869.249	1866.918
##	[4699]	1856.894	1847.049	1837.846	1834.737	1830.027	1822.863
##	[4705]	1812.315	1801.761	1792.614	1784.384	1777.034	1766.719
##	[4711]	1762.175	1757.392	1754.362	1752.195	1745.417	1737.177
##	[4717]	1736.693	1743.038	1747.148	1970.341	2244.728	2277.559
##	[4723]	2267.600	2397.454	2612.948	2749.931	2826.883	2942.189
##	[4729]	3049.535	3088.137	3088.943	3083.811	3074.879	3073.698
##	[4735]	3064.556	3060.831	3050.780	3051.578	3044.311	3099.243
##	[4741]	3262.555	3339.064	3339.011	3328.633	3318.802	3336.345
##	[4747]	3344.119	3339.098	3342.009	3380.376	3385.293	3386.189
##	[4753]	3440.225	3460.530	3471.801	3787.147	3963.552	3958.111
##	[4759]	3955.101	3957.911	3949.617	3989.520	4106.235	4100.018
##	[4765]	4089.778	4091.945	4093.185	4087.744	4087.239	4089.255
##	[4771]	4094.171	4171.123	4255.080	4310.708	4311.927	4409.505
##	[4777]	5151.784	5599.982	5596.489	5682.875	5803.246	5845.290
##	[4783]	5844.342	5835.124	5832.539	5824.598	5820.339	5825.256
##	[4789]	5819.918	5814.861	5807.884	5818.378	5943.292	6008.831
##	[4795]	6000.152	5992.216	6004.398	6001.328	5992.962	6012.430
##	[4801]	6234.323	6733.931	7289.097	7723.901	7817.292	7809.324
##	[4807]	7809.324	7914.287	8888.672	10185.366	10977.930	11157.338
##	[4813]	11149.546	11141.172	11136.389	11131.927	11177.665	11264.484
##	[4819]	11349.973	11339.602	11620.269	11759.411	11750.575	12028.840
##	[4825]	12540.818	13114.142	13325.415	13315.723	13312.534	13307.711
##	[4831]	13308.164	13311.033	13329.519	13454.769	13923.897	14616.940
##	[4837]	14900.020	14890.771	14910.439	14934.250	14942.173	14932.905
##	[4843]	14923.971	14942.255	14946.453	14942.670	14939.359	14942.749
##	[4849]	14951.645	15012.371	15233.810	15602.080	15717.209	15707.765
##	[4855]	15698.941	15722.311	15754.266	15747.879	15745.263	15736.011
##	[4861]	15725.915	15721.888	15724.196	15757.451	15776.350	15766.370
##	[4867]	15757.869	15756.551	15761.586	15759.989	15754.215	15798.308
##	[4873]	15998.044	16145.017	16230.506	16243.598	16235.207	16226.489
##	[4879]	16219.788	16211.821	16201.739	16203.554	16346.158	16339.142
##	[4885]	16355.793	16476.594	16636.659	16710.574	16726.388	16730.420
##	[4891]	16723.597	16714.535	16715.233	16706.850	16769.222	16811.709
##	[4897]	16832.444	16826.302	16821.811	16884.077	16999.741	17073.698
##	[4903]	17074.010	17073.132	17075.484	17075.560	17078.440	17095.065
##	[4909]	17143.330	17186.996	17186.799	17181.686	17202.385	17240.519
##	[4915]	17234.983	17232.827	17235.222	17226.657	17211.109	17201.576
##	[4921]	16978.384	16703.563	16662.011	16661.663	16525.011	16304.911
##	[4927]	16162.323	16077.336	15953.733	15836.816	15788.836	15785.001
##	[4933]	15787.920	15788.105	15782.346	15784.685	15785.380	15789.676
##	[4939]	15787.758	15792.548	15733.729	15566.332	15486.929	15487.434
##	[4945]	15496.916	15505.851	15488.307	15480.533	15487.472	15485.773
##	[4951]	15448.242	15442.025	15440.272	15384.906	15363.046	15351.038
##	[4957]	15034.362	14858.814	14864.255	14865.098	14861.845	14870.592
##	[4963]	14831.546	14710.745	14715.662	14721.119	14717.397	14717.831
##	[4969]	14718.832	14715.990	14715.608	14708.978	14632.923	14547.815

##	[4975]	14489.676	14489.727	14391.746	13651.385	13201.269	13206.092
##	[4981]	13119.273	12998.901	12956.857	12956.909	12964.887	12970.042
##	[4987]	12980.100	12984.802	12978.585	12982.623	12983.893	12986.540
##	[4993]	12975.653	12851.596	12786.953	12793.300	12799.906	12789.478
##	[4999]	12792.547	12800.914	12780.609	12556.599	12057.434	11501.412
##	[5005]	11069.432	10981.158	10990.426	10994.537	10890.845	9913.889
##	[5011]	8619.647	7828.677	7649.269	7659.227	7666.745	7669.775
##	[5017]	7671.844	7621.777	7533.717	7446.898	7455.516	7173.518
##	[5023]	7035.273	7044.563	6764.968	6251.275	5676.771	5462.986
##	[5029]	5469.784	5468.753	5471.409	5470.079	5463.489	5447.120
##	[5035]	5317.206	4846.110	4150.172	3865.339	3875.485	3853.649
##	[5041]	3832.409	3823.590	3833.311	3841.811	3824.424	3821.556
##	[5047]	3827.456	3829.467	3825.624	3817.564	3757.735	3536.296
##	[5053]	3168.026	3052.897	3061.444	3071.165	3047.371	3012.906
##	[5059]	3015.945	3019.398	3028.650	3037.032	3041.059	3037.037
##	[5065]	3005.536	2986.184	2994.863	3004.694	3006.012	3002.248
##	[5071]	3003.048	3007.148	2959.168	2758.192	2609.888	2523.946
##	[5077]	2508.687	2516.241	2525.383	2534.654	2544.375	2554.457
##	[5083]	2549.373	2405.096	2413.865	2397.628	2280.912	2121.301
##	[5089]	2048.686	2031.631	2030.788	2036.794	2044.182	2046.100
##	[5095]	2056.650	1997.999	1958.861	1941.020	1949.673	1955.285
##	[5101]	1902.166	1792.999	1724.792	1724.480	1726.974	1730.350
##	[5107]	1735.705	1737.938	1727.351	1684.864	1651.060	1661.118
##	[5113]	1668.324	1651.955	1617.707	1623.243	1632.620	1639.796
##	[5119]	1646.778	1653.963	1658.972	1657.377	1658.707	1664.673
##	[5125]	1672.409	1677.997	1681.825	1684.162	1691.340	1698.820
##	[5131]	1705.821	1714.755	1718.641	1720.460	1729.207	1735.743
##	[5137]	1741.306	1743.922	1747.106	1748.621	1751.895	1755.348
##	[5143]	1759.433	1762.781	1759.433	1757.366	1754.914	1753.644
##	[5149]	1753.201	1754.038	1755.338	1755.771	1755.771	1756.195
##	[5155]	1757.525	1761.247	1765.332	1766.209	1766.652	1765.322
##	[5161]	1766.592	1767.489	1765.736	1764.465	1768.551	1768.551
##	[5167]	1773.334	1777.055	1775.381	1778.924	1780.105	1780.982
##	[5173]	1780.578	1780.578	1783.403	1784.200	1783.767	1786.338
##	[5179]	1784.419	1788.505	1785.934	1785.097	1782.586	1782.586
##	[5185]	1779.397	1780.214	1780.214	1778.097	1777.654	1779.407
##	[5191]	1781.161	1784.111	1786.727	1788.361	1787.928	1787.474
##	[5197]	1788.989	1788.989	1788.536	1789.836	1792.003	1793.717
##	[5203]	1793.323	1792.446	1792.446	1792.446	1790.693	1788.575
##	[5209]	1789.452	1788.595	1790.269	1790.269	1792.023	1792.023
##	[5215]	1789.452	1788.635	1788.222	1785.884	1786.946	1785.077
##	[5221]	1784.654	1786.407	1783.652	1781.898	1779.328	1780.658
##	[5227]	1780.254	1779.163	1776.068	1774.633	1776.402	1778.116
##	[5233]	1778.549	1781.817	1781.817	1786.935	1788.489	1788.873
##	[5239]	1785.843	1784.513	1783.332	1780.762	1780.762	1779.865
##	[5245]	1778.231	1776.064	1773.897	1774.350	1775.207	1773.906
##	[5251]	1772.272	1771.819	1769.652	1767.898	1766.568	1767.465
##	[5257]	1767.012	1768.312	1768.705	1771.157	1768.765	1768.322
##	[5263]	1770.489	1770.046	1770.046	1767.475	1763.843	1764.700
##	[5269]	1762.946	1762.513	1760.445	1761.242	1763.360	1768.143
##	[5275]	1770.260	1770.693	1770.693	1771.964	1773.234	1774.111
##	[5281]	1774.111	1771.944	1770.644	1773.912	1773.518	1773.518
##	[5287]	1771.187	1767.465	1764.117	1763.240	1765.357	1763.684
##	[5293]	1765.801	1768.372	1767.574	1765.004	1762.837	1760.266

##	[5299]	1759.389	1759.842	1762.353	1761.516	1763.111	1764.930
##	[5305]	1769.369	1773.674	1778.458	1783.121	1787.666	1791.652
##	[5311]	1792.035	1791.158	1789.858	1791.876	1789.365	1788.095
##	[5317]	1789.808	1790.262	1790.262	1793.226	1795.677	1793.405
##	[5323]	1794.182	1794.182	1798.268	1799.085	1802.049	1804.500
##	[5329]	1807.325	1809.079	1811.650	1813.324	1814.220	1813.787
##	[5335]	1813.787	1810.823	1811.640	1812.880	1815.047	1815.047
##	[5341]	1815.451	1817.618	1818.051	1818.051	1814.330	1817.678
##	[5347]	1820.642	1823.990	1824.827	1825.270	1825.270	1825.724
##	[5353]	1824.453	1824.453	1824.887	1824.433	1822.266	1818.918
##	[5359]	1819.372	1817.658	1817.658	1815.590	1815.590	1814.773
##	[5365]	1816.044	1814.713	1813.896	1810.932	1810.479	1810.479
##	[5371]	1808.805	1809.218	1809.672	1811.789	1811.789	1809.721
##	[5377]	1811.435	1808.326	1804.978	1804.624	1800.539	1799.762
##	[5383]	1797.843	1799.054	1797.783	1797.086	1795.875	1793.708
##	[5389]	1794.525	1789.981	1781.822	1780.019	1772.599	1767.590
##	[5395]	1761.011	1752.511	1742.592	1734.922	1725.820	1716.567
##	[5401]	1708.089	1698.518	1689.140	1683.971	1682.731	1676.351
##	[5407]	1667.527	1658.909	1655.724	1647.246	1646.382	1668.518
##	[5413]	1660.863	1652.287	1652.678	1654.352	1647.091	1644.475
##	[5419]	1645.056	1663.262	1678.129	1706.074	1738.495	1754.992
##	[5425]	1748.169	1742.804	1735.374	1728.519	1728.830	1793.540
##	[5431]	1972.975	2478.223	2677.082	2669.026	2666.862	2752.804
##	[5437]	2852.615	2932.156	2971.320	2994.241	3008.663	3006.570
##	[5443]	3163.276	3340.749	3331.134	3347.191	3345.593	3387.898
##	[5449]	4849.345	7361.381	7824.361	7970.777	8863.293	9889.147
##	[5455]	10598.533	10750.398	10760.825	10750.730	10742.631	10740.418
##	[5461]	10730.782	10807.953	11134.462	11371.186	11373.937	11369.751
##	[5467]	11395.992	11548.827	11920.744	12368.527	12687.755	12695.183
##	[5473]	12692.911	12682.831	12709.883	12701.567	12697.308	12797.573
##	[5479]	13019.908	13571.726	14283.597	14591.348	14665.676	14667.430
##	[5485]	14711.079	14761.456	14778.102	14826.423	14958.244	15044.336
##	[5491]	15060.150	15295.113	15293.204	15345.446	15719.227	15972.403
##	[5497]	15966.021	15959.613	16005.379	16203.081	16285.825	16278.575
##	[5503]	16283.611	16354.980	16885.710	17410.208	17403.386	17763.463
##	[5509]	19119.106	20333.119	20747.047	20769.680	20760.538	20762.291
##	[5515]	20756.710	20757.920	20757.873	20815.808	20906.906	21030.067
##	[5521]	21129.879	21130.270	21125.962	21127.636	21119.502	21144.844
##	[5527]	21281.421	21337.744	21333.818	21400.586	21484.697	21516.199
##	[5533]	21514.478	21538.979	21538.929	21539.726	21537.573	21529.021
##	[5539]	21529.021	21521.112	21517.012	21582.604	21908.216	22170.840
##	[5545]	22328.616	22499.389	22519.058	22514.931	22596.317	22730.775
##	[5551]	22834.023	22862.405	22917.580	23098.258	23288.345	23378.923
##	[5557]	23377.162	23368.780	23368.043	23360.134	23358.953	23350.712
##	[5563]	23348.559	23395.972	23939.480	24223.457	24214.233	24253.004
##	[5569]	24411.919	24537.169	24574.981	24570.092	24566.404	24566.404
##	[5575]	24564.691	24560.605	24555.222	24545.729	24539.937	24532.813
##	[5581]	24528.126	24529.594	24553.391	24620.901	24653.246	24647.041
##	[5587]	24650.070	24648.554	24677.773	24699.196	24713.792	24713.375
##	[5593]	24715.178	24715.812	24733.416	24750.480	24756.183	24758.003
##	[5599]	24766.489	24768.370	24767.540	24771.992	24781.971	24781.856
##	[5605]	24779.441	24774.076	24773.462	24779.461	24780.127	24775.328
##	[5611]	24773.710	24770.886	24742.703	24770.925	24781.355	24772.589
##	[5617]	24771.271	24839.752	24914.151	24940.079	24920.772	24899.973

##	[5623]	24866.107	24831.932	24813.462	24813.689	24812.693	24813.770
##	[5629]	24815.522	24813.894	24748.607	24567.602	24061.262	23859.509
##	[5635]	23863.679	23862.210	23773.000	23672.735	23594.032	23556.502
##	[5641]	23536.197	23519.383	23520.739	23359.966	23177.634	23185.181
##	[5647]	23169.519	23169.936	23127.227	21665.327	19154.188	18691.208
##	[5653]	18547.302	17654.786	16627.014	15914.943	15761.837	15750.956
##	[5659]	15761.505	15769.604	15773.490	15784.024	15708.821	15380.244
##	[5665]	15142.624	15135.328	15135.622	15105.314	14950.810	14576.442
##	[5671]	14126.326	13805.464	13799.671	13800.024	13808.804	13780.856
##	[5677]	13789.625	13793.450	13693.639	13470.033	12919.112	12205.527
##	[5683]	11897.323	11823.408	11822.511	11777.148	11726.388	11706.777
##	[5689]	11661.645	11532.216	11447.718	11431.481	11195.640	11199.224
##	[5695]	11146.539	10770.187	10517.807	10524.593	10532.716	10488.623
##	[5701]	10291.355	10205.647	10211.596	10208.728	10138.659	9610.893
##	[5707]	9086.395	9094.074	8732.666	7377.023	6163.907	5749.536
##	[5713]	5729.867	5738.586	5738.133	5742.877	5741.666	5741.714
##	[5719]	5682.902	5590.474	5463.965	5360.805	5360.858	5366.257
##	[5725]	5367.154	5372.716	5345.208	5205.945	5148.725	5150.584
##	[5731]	5080.627	4995.619	4964.118	4966.735	4940.904	4941.831
##	[5737]	4943.998	4948.662	4958.968	4958.544	4963.883	4970.553
##	[5743]	4906.232	4580.166	4315.091	4157.315	3989.367	3968.801
##	[5749]	3968.843	3884.886	3748.794	3645.545	3617.597	3562.422
##	[5755]	3383.911	3194.681	3104.999	3105.884	3115.536	3119.622
##	[5761]	3125.777	3128.228	3136.903	3139.055	3091.190	2548.922
##	[5767]	2265.842	2274.229	2237.575	2079.871	1955.074	1918.936
##	[5773]	1925.066	1928.753	1927.000	1927.413	1928.151	1935.168
##	[5779]	1945.114	1955.345	1963.247	1969.803	1971.523	1949.320
##	[5785]	1885.896	1853.974	1860.180	1861.933	1865.960	1838.455
##	[5791]	1818.786	1808.734	1813.962	1808.521	1815.307	1802.712
##	[5797]	1792.660	1794.620	1801.419	1799.825	1807.924	1815.112
##	[5803]	1817.021	1815.716	1825.662	1836.211	1842.816	1850.667
##	[5809]	1853.492	1863.198	1873.752	1881.731	1883.824	1889.870
##	[5815]	1868.871	1865.263	1872.781	1872.425	1812.878	1743.263
##	[5821]	1721.483	1724.976	1734.451	1740.372	1739.958	1744.687
##	[5827]	1749.687	1756.049	1761.072	1768.746	1771.537	1777.721
##	[5833]	1781.503	1782.221	1784.239	1786.855	1790.940	1794.209
##	[5839]	1793.765	1794.199	1794.632	1792.714	1793.471	1793.471
##	[5845]	1799.655	1803.243	1803.637	1805.754	1808.649	1809.052
##	[5851]	1809.052	1808.156	1809.909	1810.363	1809.919	1812.675
##	[5857]	1817.114	1819.685	1818.384	1817.488	1817.941	1818.838
##	[5863]	1818.838	1818.020	1820.531	1821.428	1826.869	1832.928
##	[5869]	1839.566	1844.424	1847.772	1851.404	1854.368	1854.368
##	[5875]	1856.700	1855.883	1854.613	1853.283	1854.613	1854.159
##	[5881]	1852.605	1851.275	1850.871	1849.571	1847.976	1844.434
##	[5887]	1845.704	1848.599	1848.993	1849.889	1850.766	1849.949
##	[5893]	1847.617	1848.494	1848.494	1848.937	1849.341	1848.937
##	[5899]	1847.756	1847.313	1847.313	1846.456	1848.524	1849.824
##	[5905]	1847.253	1845.953	1845.953	1845.500	1845.500	1846.830
##	[5911]	1847.283	1845.953	1846.396	1844.229	1845.983	1845.540
##	[5917]	1847.707	1848.917	1850.188	1849.764	1847.373	1850.267
##	[5923]	1853.615	1854.069	1856.963	1854.796	1856.914	1857.751
##	[5929]	1861.736	1862.633	1864.701	1868.786	1867.929	1867.476
##	[5935]	1864.128	1862.887	1860.770	1857.806	1857.806	1856.909
##	[5941]	1857.333	1858.150	1857.696	1856.426	1855.983	1859.331

##	[5947]	1858.877	1858.877	1858.444	1862.529	1865.100	1866.311
##	[5953]	1862.325	1858.782	1855.818	1854.921	1852.096	1850.343
##	[5959]	1850.776	1851.673	1848.325	1849.625	1850.522	1850.965
##	[5965]	1849.146	1848.269	1848.269	1847.816	1849.087	1849.540
##	[5971]	1851.293	1849.126	1850.023	1851.353	1849.385	1849.385
##	[5977]	1850.242	1853.590	1852.349	1851.453	1851.453	1854.023
##	[5983]	1852.872	1850.421	1850.421	1849.524	1849.958	1849.161
##	[5989]	1848.264	1848.264	1846.147	1842.425	1840.751	1839.660
##	[5995]	1842.933	1843.770	1843.367	1844.264	1846.431	1847.731
##	[6001]	1849.749	1848.449	1850.466	1852.140	1853.037	1852.584
##	[6007]	1851.254	1849.236	1850.132	1851.029	1850.576	1849.679
##	[6013]	1852.250	1855.598	1856.494	1856.928	1858.681	1860.435
##	[6019]	1862.552	1862.119	1861.222	1861.222	1861.222	1859.952
##	[6025]	1859.952	1859.155	1859.588	1860.769	1862.009	1863.340
##	[6031]	1863.340	1866.304	1865.861	1867.978	1869.129	1870.459
##	[6037]	1871.729	1869.562	1869.119	1869.562	1870.459	1870.902
##	[6043]	1874.988	1875.785	1879.870	1878.570	1878.984	1878.984
##	[6049]	1878.540	1878.994	1878.994	1876.099	1875.666	1875.212
##	[6055]	1873.045	1873.045	1873.479	1873.479	1872.582	1871.371
##	[6061]	1869.304	1866.339	1864.172	1862.005	1864.122	1862.409
##	[6067]	1861.079	1859.325	1857.158	1853.436	1851.369	1849.202
##	[6073]	1846.691	1840.337	1834.492	1831.462	1827.121	1819.457
##	[6079]	1811.082	1807.360	1797.983	1792.117	1783.726	1775.864
##	[6085]	1770.442	1772.893	1768.585	1759.651	1754.045	1756.163
##	[6091]	1764.085	1786.579	1790.030	1783.688	1784.142	1784.585
##	[6097]	1775.912	1774.314	1769.426	1771.443	1770.173	1760.515
##	[6103]	1774.009	1856.292	1911.920	1904.064	1895.390	1886.100
##	[6109]	1876.021	1870.564	1861.120	1867.269	1885.245	1893.621
##	[6115]	1912.434	1925.526	1916.836	1912.053	1904.235	1896.760
##	[6121]	1894.792	1989.612	2318.269	2443.066	2480.236	2558.062
##	[6127]	2552.770	2558.238	2682.729	2819.712	2886.821	2901.501
##	[6133]	2900.121	2897.394	2894.883	2888.386	2893.313	2984.158
##	[6139]	3041.158	3056.095	3076.661	3155.364	3286.883	3348.354
##	[6145]	3375.862	3422.044	3420.713	3465.402	3463.289	3460.897
##	[6151]	3460.897	3450.666	3475.270	3471.337	3488.868	3851.910
##	[6157]	4237.730	4609.721	4633.515	4681.824	4866.199	4966.414
##	[6163]	4973.016	4962.637	4995.512	5171.127	5328.408	5353.409
##	[6169]	5354.743	5461.458	5693.765	6104.340	6257.041	6247.751
##	[6175]	6241.081	6275.395	6283.296	6298.677	6323.178	6356.341
##	[6181]	6363.385	6354.114	6343.736	6353.034	6354.167	6348.714
##	[6187]	6402.518	6503.226	6497.238	6490.928	6631.353	6767.051
##	[6193]	6823.680	6825.797	6819.865	6814.572	6840.404	6837.819
##	[6199]	7028.147	7043.342	7033.288	7060.809	7057.407	7054.610
##	[6205]	7118.931	7126.854	7117.476	7165.150	7689.737	7956.140
##	[6211]	7945.668	7974.043	8130.890	8264.018	8346.762	8466.680
##	[6217]	8485.715	8478.508	8482.430	8571.157	8735.799	8744.618
##	[6223]	8738.518	8730.558	8776.961	9040.441	9266.998	9268.303
##	[6229]	9287.117	9499.267	9812.071	10027.109	10100.559	10134.806
##	[6235]	10135.668	10127.867	10118.441	10124.353	10159.871	10239.469
##	[6241]	10278.071	10317.210	10393.718	10448.893	10584.188	10652.545
##	[6247]	10653.350	10646.756	10642.121	10637.262	10627.200	10640.446
##	[6253]	10657.577	10682.578	10720.201	10736.151	10737.928	10738.319
##	[6259]	10732.840	10728.914	10724.703	10722.844	10734.964	10744.452
##	[6265]	10919.356	11154.319	11158.842	11165.188	11205.090	11197.814

##	[6271]	11191.590	11212.692	11361.832	11635.915	11986.229	12111.717
##	[6277]	12106.354	12170.748	12421.759	12762.270	13023.083	13205.650
##	[6283]	13333.549	13387.506	13408.366	13408.336	13399.661	13407.512
##	[6289]	13411.588	13412.530	13410.019	13393.143	13365.009	13353.822
##	[6295]	13354.009	13365.088	13385.990	13395.997	13389.212	13390.916
##	[6301]	13387.463	13384.189	13387.832	13370.337	13283.510	13226.582
##	[6307]	13234.044	13244.471	13252.864	13260.433	13266.786	13273.266
##	[6313]	13267.118	13247.901	13238.224	13219.824	13206.732	13215.866
##	[6319]	13219.753	13229.324	13237.243	13239.634	13145.188	12815.230
##	[6325]	12689.980	12652.357	12572.413	12577.302	12570.533	12446.919
##	[6331]	12307.042	12239.933	12224.819	12224.870	12228.453	12230.964
##	[6337]	12240.809	12237.556	12148.829	12094.793	12079.412	12058.413
##	[6343]	11981.040	11850.821	11788.907	11762.669	11716.488	11714.470
##	[6349]	11665.796	11664.720	11664.720	11663.390	11672.291	11648.544
##	[6355]	11655.586	11640.740	11280.663	10895.287	10527.017	10503.223
##	[6361]	10455.811	10271.436	10172.815	10166.666	10176.592	10141.600
##	[6367]	9968.601	9812.650	9785.631	9781.403	9673.013	9439.376
##	[6373]	9026.231	8875.243	8884.533	8886.764	8854.005	8845.690
##	[6379]	8829.876	8802.410	8771.819	8765.670	8773.611	8783.537
##	[6385]	8777.960	8776.453	8783.206	8727.335	8627.070	8634.269
##	[6391]	8640.579	8497.260	8362.802	8309.442	8307.728	8315.529
##	[6397]	8321.235	8294.163	8299.318	8108.537	8090.377	8100.432
##	[6403]	8073.787	8076.775	8080.450	8014.858	8001.495	8008.361
##	[6409]	7957.578	7435.442	7168.143	7177.718	7149.343	6992.496
##	[6415]	6859.368	6776.624	6655.809	6633.950	6640.259	6635.441
##	[6421]	6544.596	6380.388	6372.465	6379.442	6387.402	6343.167
##	[6427]	6081.440	5853.762	5847.912	5831.266	5618.279	5303.307
##	[6433]	5084.921	5010.575	4976.328	4974.589	4984.064	4992.593
##	[6439]	4987.578	4954.227	4872.562	4833.083	4792.614	4714.805
##	[6445]	4659.631	4526.503	4457.249	4458.197	4465.215	4471.091
##	[6451]	4475.949	4483.441	4470.609	4456.826	4433.155	4395.532
##	[6457]	4381.749	4379.538	4377.877	4383.355	4387.725	4393.571
##	[6463]	4398.394	4388.342	4379.690	4206.500	3969.823	3967.467
##	[6469]	3961.555	3920.835	3926.557	3933.539	3913.234	3762.539
##	[6475]	3487.699	3140.390	3016.961	3023.385	2960.148	2717.214
##	[6481]	2385.512	2126.254	1950.169	1827.418	1776.546	1766.118
##	[6487]	1773.324	1779.547	1776.722	1781.580	1786.697	1788.765
##	[6493]	1797.718	1803.812	1811.951	1821.738	1805.542	1785.093
##	[6499]	1780.865	1788.844	1794.146	1796.762	1799.238	1804.396
##	[6505]	1805.034	1809.579	1811.332	1810.949	1810.949	1808.124
##	[6511]	1811.088	1810.191	1811.402	1811.402	1813.973	1813.559
##	[6517]	1813.982	1811.412	1811.865	1812.308	1812.308	1812.762
##	[6523]	1812.762	1816.110	1816.967	1814.072	1812.358	1814.929
##	[6529]	1813.778	1813.778	1813.335	1816.229	1815.332	1816.209
##	[6535]	1814.969	1815.865	1816.319	1814.989	1813.718	1813.275
##	[6541]	1813.275	1811.601	1812.931	1810.360	1810.814	1809.140
##	[6547]	1808.706	1808.273	1809.867	1814.306	1813.275	1815.666
##	[6553]	1814.032	1812.792	1810.724	1809.887	1809.474	1806.509
##	[6559]	1806.963	1806.509	1807.366	1806.469	1803.899	1802.688
##	[6565]	1798.966	1797.253	1798.070	1799.783	1799.330	1799.330
##	[6571]	1802.678	1805.249	1805.249	1807.819	1806.106	1806.106
##	[6577]	1810.092	1810.929	1810.131	1810.565	1812.199	1810.869
##	[6583]	1807.147	1807.581	1805.867	1805.867	1807.835	1807.835
##	[6589]	1809.903	1809.459	1810.316	1809.883	1812.334	1813.664

##	[6595]	1812.787	1814.058	1813.664	1815.418	1815.418	1812.453
##	[6601]	1812.453	1815.418	1814.974	1815.428	1817.595	1815.477
##	[6607]	1815.891	1820.435	1820.051	1824.491	1824.057	1821.232
##	[6613]	1820.799	1820.799	1818.348	1817.451	1816.121	1817.018
##	[6619]	1819.409	1819.409	1816.958	1819.075	1818.218	1817.765
##	[6625]	1817.765	1818.198	1818.198	1816.031	1818.787	1824.228
##	[6631]	1823.774	1825.941	1825.941	1825.568	1823.894	1824.790
##	[6637]	1823.953	1824.397	1825.294	1824.397	1822.643	1823.854
##	[6643]	1824.287	1823.864	1823.864	1823.864	1823.864	1824.761
##	[6649]	1823.430	1824.307	1825.637	1826.534	1829.105	1829.528
##	[6655]	1829.075	1829.075	1828.198	1828.198	1829.528	1830.799
##	[6661]	1830.345	1827.834	1829.164	1829.164	1830.061	1829.638
##	[6667]	1830.091	1831.361	1830.465	1829.194	1830.435	1831.586
##	[6673]	1834.097	1834.097	1834.471	1838.192	1839.787	1844.007
##	[6679]	1845.562	1851.317	1850.903	1851.800	1853.967	1857.315
##	[6685]	1860.424	1867.061	1864.491	1863.161	1864.341	1865.492
##	[6691]	1865.936	1865.936	1865.936	1864.182	1862.852	1865.019
##	[6697]	1865.019	1867.969	1867.072	1869.967	1871.208	1869.494
##	[6703]	1869.907	1870.301	1872.055	1875.418	1875.418	1875.418
##	[6709]	1876.195	1875.299	1877.267	1873.919	1873.919	1873.919
##	[6715]	1873.022	1871.692	1873.406	1874.736	1877.306	1875.976
##	[6721]	1873.082	1873.082	1872.185	1873.515	1873.062	1871.388
##	[6727]	1873.839	1874.253	1872.499	1876.221	1877.078	1877.974
##	[6733]	1877.974	1878.871	1877.571	1879.245	1879.245	1878.348
##	[6739]	1879.678	1878.124	1879.020	1878.124	1879.798	1879.798
##	[6745]	1879.798	1874.357	1874.357	1875.687	1875.687	1867.389
##	[6751]	1858.263	1852.847	1850.455	1847.066	1839.129	1831.582
##	[6757]	1824.460	1816.073	1814.598	1807.422	1797.398	1791.625
##	[6763]	1784.149	1776.563	1768.992	1762.755	1759.481	1761.181
##	[6769]	1802.782	1858.410	2050.091	2302.587	2405.382	2401.929
##	[6775]	2426.431	2472.833	2465.130	2456.477	2451.748	2445.125
##	[6781]	2447.384	2453.729	2465.487	2488.107	2524.244	2588.627
##	[6787]	2608.296	2653.246	2724.583	2749.150	2744.292	2738.802
##	[6793]	2790.811	2822.300	2821.794	2861.273	2953.268	3110.368
##	[6799]	3262.698	3278.361	3270.792	3287.892	3277.513	3274.324
##	[6805]	3268.569	3302.860	3395.112	3386.439	3430.531	3549.008
##	[6811]	3542.338	3534.921	3529.711	3523.582	3514.204	3507.003
##	[6817]	3497.366	3505.426	3495.111	3495.988	3494.314	3505.585
##	[6823]	3495.807	3578.947	3897.298	4070.488	4070.488	4155.977
##	[6829]	4568.718	5007.080	5280.570	5376.434	5366.007	5609.354
##	[6835]	5941.280	6191.790	6201.576	6206.100	6303.420	6420.136
##	[6841]	6512.131	6512.082	6839.448	7150.617	7188.571	7198.247
##	[6847]	7392.594	7593.044	7733.015	7788.381	7810.875	7837.066
##	[6853]	7827.777	7868.924	7942.416	7960.256	7952.553	7950.491
##	[6859]	7947.143	7955.677	8098.281	8130.235	8126.813	8116.264
##	[6865]	8114.934	8686.090	9808.996	10582.335	10625.398	10721.705
##	[6871]	11493.266	12206.013	12379.416	12386.017	12380.482	12436.737
##	[6877]	12767.542	13165.520	13196.108	13276.976	13469.309	13786.822
##	[6883]	13877.920	13867.372	14145.637	14813.615	15594.873	16414.830
##	[6889]	16626.980	16629.147	16686.893	16908.785	17170.512	17323.739
##	[6895]	17351.684	17355.882	17356.291	17346.588	17348.755	17349.598
##	[6901]	17481.493	17821.492	18181.026	18208.971	18203.632	18205.989
##	[6907]	18205.172	18243.238	18275.659	18272.752	18269.168	18307.122
##	[6913]	18314.933	18307.254	18300.055	18352.740	18356.426	18348.132



##	[6919]	18352.596	18352.542	18348.755	18343.944	18346.300	18394.610
##	[6925]	18536.316	18561.271	18558.686	18768.309	19124.728	19243.197
##	[6931]	19233.753	19589.316	19894.555	19913.906	19904.319	19908.429
##	[6937]	19899.882	19892.939	19983.517	20095.503	20128.916	20126.749
##	[6943]	20138.725	20169.313	20158.942	20153.164	20157.275	20162.714
##	[6949]	20161.817	20154.041	20153.665	20277.920	20319.955	20314.233
##	[6955]	20320.995	20494.814	20915.900	21377.268	21647.227	21748.533
##	[6961]	21746.940	21746.990	21807.696	21954.313	22094.236	22138.122
##	[6967]	22140.145	22140.803	22137.892	22087.813	22024.063	21828.026
##	[6973]	21565.686	21458.107	21460.723	21428.313	21374.132	21371.408
##	[6979]	21370.200	21452.314	21563.200	21581.506	21572.769	21558.577
##	[6985]	21546.408	21512.530	21442.884	21413.509	21360.082	21280.267
##	[6991]	21250.537	21248.383	21244.824	21183.712	21203.800	21330.749
##	[6997]	21356.024	21299.217	21135.955	20975.950	21052.539	21334.190
##	[7003]	21528.364	21598.572	21636.948	21665.553	21625.784	21528.428
##	[7009]	21534.072	21487.912	21371.886	21375.986	21383.836	21391.014
##	[7015]	21396.720	21404.384	21408.580	21413.054	21398.895	21402.297
##	[7021]	21396.398	21390.416	21372.922	21374.601	21288.431	20966.095
##	[7027]	20791.191	20790.334	20701.123	20289.652	19847.503	19569.230
##	[7033]	19468.065	19472.138	19228.388	18899.730	18651.791	18642.004
##	[7039]	18636.684	18537.649	18417.970	18326.418	18327.324	17997.626
##	[7045]	17685.186	17648.986	17636.280	17435.874	17233.671	17091.533
##	[7051]	17033.411	17011.371	16985.179	16993.139	16951.095	16877.603
##	[7057]	16860.216	16866.165	16868.661	16870.255	16859.151	16716.114
##	[7063]	16684.159	16690.546	16701.095	16701.095	16127.771	15005.722
##	[7069]	14230.630	14186.710	14087.578	13316.017	12603.703	12430.704
##	[7075]	12423.660	12429.609	12376.248	12042.095	11644.541	11610.764
##	[7081]	11532.063	11336.766	11018.455	10924.009	10931.987	10653.268
##	[7087]	9985.290	9204.032	8383.681	8172.408	8171.078	8114.573
##	[7093]	7890.967	7627.910	7475.580	7446.817	7443.053	7436.889
##	[7099]	7444.475	7441.904	7441.061	7309.620	6970.054	6610.117
##	[7105]	6583.925	6589.263	6586.907	6588.581	6550.081	6516.763
##	[7111]	6520.075	6521.207	6482.436	6475.402	6481.811	6488.596
##	[7117]	6434.237	6431.428	6439.722	6435.258	6434.859	6438.646
##	[7123]	6445.908	6442.655	6395.242	6252.206	6227.251	6232.407
##	[7129]	6021.513	5663.883	5542.729	5552.172	5197.507	4890.101
##	[7135]	4870.306	4878.563	4875.310	4884.753	4889.126	4798.991
##	[7141]	4687.005	4655.983	4658.151	4644.107	4614.416	4623.891
##	[7147]	4631.342	4631.342	4628.020	4626.346	4635.453	4644.550
##	[7153]	4526.850	4494.895	4500.991	4498.012	4332.129	3921.102
##	[7159]	3468.126	3207.825	3110.061	3118.831	3127.927	3073.438
##	[7165]	2931.845	2797.994	2761.679	2768.284	2773.067	2775.135
##	[7171]	2779.628	2784.482	2788.099	2793.161	2797.047	2799.214
##	[7177]	2804.159	2814.105	2821.567	2827.796	2748.019	2641.938
##	[7183]	2619.305	2623.026	2626.338	2619.155	2617.792	2621.875
##	[7189]	2627.859	2638.090	2647.022	2651.327	2658.783	2668.729
##	[7195]	2678.265	2622.802	2493.394	2429.073	2392.212	2400.885
##	[7201]	2407.229	2314.978	2043.860	1832.586	1771.861	1736.673
##	[7207]	1712.492	1717.971	1724.749	1729.078	1730.289	1731.186
##	[7213]	1733.757	1731.689	1732.989	1734.743	1735.580	1741.933
##	[7219]	1746.238	1753.669	1760.580	1766.933	1775.033	1784.604
##	[7225]	1792.259	1796.146	1799.255	1798.074	1799.374	1803.096
##	[7231]	1801.826	1806.046	1810.376	1814.377	1820.730	1821.548
##	[7237]	1822.001	1820.671	1818.100	1819.734	1821.005	1823.969

##	[7243]	1824.422	1822.748	1825.080	1827.247	1827.247	1832.030
##	[7249]	1837.193	1838.946	1840.660	1842.992	1842.095	1839.131
##	[7255]	1840.461	1839.604	1840.038	1840.038	1841.791	1842.688
##	[7261]	1843.545	1846.115	1847.446	1846.569	1846.569	1845.239
##	[7267]	1846.569	1848.736	1849.633	1851.386	1851.810	1853.364
##	[7273]	1855.531	1856.428	1857.698	1857.265	1858.122	1858.122
##	[7279]	1860.140	1861.470	1863.802	1863.348	1866.313	1867.523
##	[7285]	1868.301	1870.871	1869.571	1870.005	1868.251	1869.885
##	[7291]	1870.338	1871.669	1872.545	1874.259	1875.589	1874.259
##	[7297]	1876.830	1875.156	1880.457	1882.575	1883.815	1884.259
##	[7303]	1881.688	1881.688	1884.259	1882.092	1884.662	1882.092
##	[7309]	1882.988	1883.865	1884.762	1886.929	1888.947	1890.621
##	[7315]	1892.738	1894.009	1895.722	1896.539	1896.993	1895.692
##	[7321]	1895.692	1893.979	1894.855	1895.752	1894.895	1893.142
##	[7327]	1892.718	1888.054	1885.887	1883.615	1884.009	1888.448
##	[7333]	1887.995	1887.995	1888.408	1888.408	1888.842	1888.408
##	[7339]	1887.512	1888.752	1886.635	1883.671	1885.001	1884.104
##	[7345]	1884.901	1883.148	1881.877	1881.877	1881.877	1877.891
##	[7351]	1877.498	1874.927	1873.293	1874.533	1874.987	1877.881
##	[7357]	1879.555	1881.229	1880.786	1881.683	1881.683	1882.579
##	[7363]	1881.683	1881.259	1881.259	1884.154	1887.342	1889.410
##	[7369]	1890.740	1888.987	1887.716	1890.825	1892.380	1896.465
##	[7375]	1899.495	1900.392	1899.061	1899.061	1897.731	1900.242
##	[7381]	1903.431	1904.986	1907.602	1909.669	1909.669	1909.226
##	[7387]	1909.679	1908.349	1908.349	1912.071	1911.174	1910.277
##	[7393]	1912.031	1911.154	1909.824	1909.391	1913.720	1915.355
##	[7399]	1916.251	1916.251	1916.705	1918.035	1920.605	1920.152
##	[7405]	1920.152	1921.049	1921.492	1922.822	1921.926	1922.822
##	[7411]	1922.822	1924.123	1924.123	1924.123	1926.634	1925.757
##	[7417]	1925.303	1926.180	1925.727	1927.480	1927.480	1926.584
##	[7423]	1926.584	1927.037	1926.140	1925.707	1925.274	1921.487
##	[7429]	1920.051	1914.750	1907.574	1903.986	1896.974	1891.672
##	[7435]	1890.461	1881.035	1873.345	1862.795	1856.950	1855.081
##	[7441]	1850.352	1842.317	1832.371	1822.800	1817.941	1812.783
##	[7447]	1802.476	1796.721	1786.763	1778.728	1768.220	1765.709
##	[7453]	1764.892	1764.035	1763.651	1753.116	1750.047	1751.352
##	[7459]	1749.137	1739.566	1729.845	1752.782	1799.125	1816.512
##	[7465]	1854.042	1888.333	1906.310	1907.672	1897.123	1888.775
##	[7471]	1878.268	1869.877	1865.132	1883.270	1925.437	1928.690
##	[7477]	1937.341	1939.600	1947.976	2005.630	2034.431	2029.798
##	[7483]	2102.413	2225.574	2429.831	2429.392	2485.715	2818.274
##	[7489]	3157.840	3368.320	3457.924	3457.418	3461.881	3456.275
##	[7495]	3558.027	4007.077	4037.208	4132.619	4294.801	4305.682
##	[7501]	4295.979	4420.470	4429.457	4428.680	4423.517	4467.752
##	[7507]	5103.931	5602.643	5619.697	5707.971	6427.443	7529.692
##	[7513]	7993.987	8051.641	8042.065	8032.560	8027.665	8021.731
##	[7519]	8041.623	8049.545	8043.869	8070.920	8197.885	8275.711
##	[7525]	8346.595	8523.000	8576.541	8573.856	8616.142	8694.365
##	[7531]	8695.412	8687.510	8681.123	8675.223	8667.064	8658.282
##	[7537]	8714.353	8840.047	8835.622	8875.658	8905.790	8903.880
##	[7543]	8898.292	8889.920	8890.310	8912.927	8952.830	8977.847
##	[7549]	9966.456	12210.217	12505.033	12637.762	13005.862	13451.847
##	[7555]	14191.371	15139.372	15985.869	16126.737	16119.058	16109.648
##	[7561]	16102.442	16100.374	16090.804	16081.167	16079.573	16074.585

##	[7567]	16067.364	16057.828	16085.776	16096.204	16092.840	16086.635
##	[7573]	16077.819	16092.397	16322.511	16545.703	16592.047	16582.844
##	[7579]	16582.416	16679.156	16948.364	17325.813	17972.781	18580.626
##	[7585]	18920.192	19145.948	19626.634	19890.694	19887.939	20162.405
##	[7591]	20764.586	21443.189	22046.266	22334.201	22394.181	22393.344
##	[7597]	22458.099	22492.843	22486.499	22493.228	22536.946	22526.411
##	[7603]	22614.685	22708.648	22759.781	22753.881	22946.214	23374.790
##	[7609]	23751.341	23865.791	24038.527	24140.279	24130.682	24122.106
##	[7615]	24111.875	24101.779	24095.650	24086.273	24076.895	24067.108
##	[7621]	24057.537	24123.408	24215.403	24213.236	24317.538	24496.946
##	[7627]	24567.891	24561.062	24557.248	24552.605	24550.226	24651.365
##	[7633]	24816.732	24826.495	24824.548	24819.353	24820.032	24822.564
##	[7639]	24830.496	24885.085	24921.025	24920.141	24919.127	24934.088
##	[7645]	24961.797	24965.835	24964.613	24969.802	24967.209	24971.413
##	[7651]	24978.178	24979.916	24979.115	24972.099	24964.426	24966.877
##	[7657]	24967.362	24965.273	24954.354	24946.033	24952.256	24955.624
##	[7663]	24923.878	24876.638	24852.613	24810.972	24774.111	24751.405
##	[7669]	24739.616	24811.182	24896.903	24994.287	25019.203	25017.183
##	[7675]	24993.290	24942.017	24930.235	24913.470	25060.857	25413.011
##	[7681]	25627.806	25789.332	25937.426	25927.481	25818.103	25605.653
##	[7687]	25599.392	25534.492	25199.922	24851.295	24633.142	24538.515
##	[7693]	24532.110	24519.094	24515.727	24405.002	23947.400	23910.465
##	[7699]	23807.380	23641.099	23621.084	23629.487	23497.773	23485.154
##	[7705]	23483.385	23482.268	23432.278	22796.099	22294.039	22276.591
##	[7711]	22187.864	21468.846	20364.843	19897.977	19839.083	19847.388
##	[7717]	19855.594	19861.385	19866.442	19847.851	19838.175	19843.851
##	[7723]	19816.346	19691.549	19614.176	19541.125	19363.126	19307.990
##	[7729]	19308.343	19267.826	19188.806	19187.082	19194.206	19196.871
##	[7735]	19202.771	19209.600	19220.136	19163.631	19037.937	19042.795
##	[7741]	19001.903	18970.934	18975.414	18982.213	18987.621	18985.960
##	[7747]	18961.789	18922.310	18897.292	17909.581	15664.186	15372.912
##	[7753]	15239.799	14872.939	14426.571	13686.209	12736.455	11889.515
##	[7759]	11749.090	11757.666	11765.805	11773.011	11772.628	11778.477
##	[7765]	11784.925	11785.702	11790.246	11794.957	11803.222	11774.417
##	[7771]	11761.822	11766.939	11773.145	11780.326	11765.345	11534.335
##	[7777]	11310.728	11262.218	11271.421	11273.917	11178.053	10907.131
##	[7783]	10527.231	9881.977	9273.728	8935.059	8707.973	8227.730
##	[7789]	7963.670	7967.755	7695.741	7092.663	6411.993	5809.811
##	[7795]	5519.710	5458.095	5460.262	5394.671	5359.927	5364.637
##	[7801]	5357.454	5314.976	5324.615	5233.771	5137.640	5086.961
##	[7807]	5089.966	4893.548	4462.461	4084.155	3967.639	3791.180
##	[7813]	3686.160	3694.044	3702.620	3711.097	3721.193	3727.755
##	[7819]	3736.256	3745.634	3755.421	3761.644	3695.773	3604.674
##	[7825]	3603.877	3498.678	3317.596	3245.017	3251.422	3257.783
##	[7831]	3263.488	3270.724	3175.865	3013.683	3010.932	3017.737
##	[7837]	3025.897	3034.190	3039.772	3041.936	2993.627	2961.672
##	[7843]	2966.861	2975.477	2969.565	2949.674	2951.736	2958.116
##	[7849]	2963.233	2970.251	2971.567	2971.980	2979.853	2981.451
##	[7855]	2987.316	2996.742	2997.639	3005.119	3008.309	3018.367
##	[7861]	3026.735	3028.753	3033.776	3042.152	3043.049	3048.789
##	[7867]	3051.660	3052.900	3056.389	3063.468	2999.102	2918.381
##	[7873]	2831.505	2815.857	2823.458	2828.317	2834.075	2839.780
##	[7879]	2847.056	2694.959	2333.551	2062.434	1869.141	1727.434
##	[7885]	1663.888	1650.105	1657.884	1665.825	1672.647	1675.515

##	[7891]	1683.307	1692.280	1696.466	1702.481	1710.137	1718.233
##	[7897]	1727.659	1734.881	1742.561	1750.236	1756.009	1765.596
##	[7903]	1766.897	1774.119	1778.204	1783.321	1788.744	1794.499
##	[7909]	1796.666	1799.560	1802.071	1800.771	1799.018	1800.771
##	[7915]	1803.342	1805.016	1805.016	1803.048	1802.594	1801.757
##	[7921]	1802.211	1802.634	1804.388	1804.841	1803.511	1801.757
##	[7927]	1803.471	1806.819	1808.837	1811.169	1814.517	1815.728
##	[7933]	1820.391	1823.739	1826.131	1825.687	1827.018	1826.564
##	[7939]	1826.998	1826.141	1827.037	1828.338	1829.608	1829.608
##	[7945]	1831.362	1833.873	1834.286	1836.254	1837.131	1839.298
##	[7951]	1835.213	1838.177	1839.074	1839.074	1837.056	1840.404
##	[7957]	1842.571	1842.994	1843.438	1842.137	1842.137	1842.974
##	[7963]	1842.974	1845.869	1848.261	1851.449	1851.853	1852.750
##	[7969]	1855.714	1856.984	1858.738	1860.008	1858.255	1860.422
##	[7975]	1862.489	1865.060	1864.203	1865.474	1867.187	1868.064
##	[7981]	1867.207	1866.331	1868.498	1868.881	1869.335	1870.152
##	[7987]	1868.398	1869.728	1867.611	1865.444	1864.547	1864.547
##	[7993]	1865.444	1867.955	1866.625	1868.338	1870.849	1868.682
##	[7999]	1868.682	1868.239	1870.307	1870.307	1869.066	1868.633
##	[8005]	1871.203	1872.917	1872.020	1874.472	1878.557	1878.951
##	[8011]	1880.704	1883.668	1886.060	1888.028	1888.865	1887.535
##	[8017]	1888.392	1888.392	1886.718	1887.595	1886.718	1887.171
##	[8023]	1890.519	1888.766	1886.599	1889.109	1887.839	1889.080
##	[8029]	1891.147	1892.447	1892.851	1894.406	1894.406	1894.849
##	[8035]	1897.420	1898.316	1898.760	1897.430	1897.883	1896.642
##	[8041]	1896.642	1896.209	1894.495	1894.082	1892.447	1892.891
##	[8047]	1894.644	1894.221	1895.078	1895.078	1895.511	1899.951
##	[8053]	1901.251	1899.980	1900.394	1900.768	1899.438	1897.684
##	[8059]	1896.907	1898.461	1898.915	1900.185	1901.515	1902.845
##	[8065]	1903.279	1903.279	1902.422	1904.096	1904.096	1904.499
##	[8071]	1906.094	1906.094	1907.688	1907.688	1908.141	1909.018
##	[8077]	1909.018	1912.366	1916.088	1917.802	1919.396	1919.829
##	[8083]	1919.829	1922.794	1921.040	1922.370	1922.370	1923.641
##	[8089]	1924.971	1925.828	1924.557	1926.724	1925.847	1927.118
##	[8095]	1926.684	1927.581	1928.458	1927.128	1925.494	1925.947
##	[8101]	1925.050	1924.617	1923.287	1923.740	1919.629	1918.299
##	[8107]	1916.545	1914.951	1914.951	1914.498	1914.498	1914.951
##	[8113]	1916.705	1915.888	1913.720	1911.150	1912.046	1914.214
##	[8119]	1916.605	1911.941	1904.046	1893.538	1887.693	1881.055
##	[8125]	1871.224	1862.019	1853.224	1843.200	1833.054	1824.439
##	[8131]	1816.361	1805.889	1800.212	1799.718	1789.163	1785.671
##	[8137]	1866.606	1956.287	1952.655	2166.476	2470.966	2573.762
##	[8143]	2566.756	2566.756	2556.441	2549.498	2554.967	2577.960
##	[8149]	2570.270	2568.970	2562.058	2572.873	2642.489	2743.787
##	[8155]	2780.486	2783.328	2777.234	2770.564	2761.748	2760.871
##	[8161]	2807.909	2980.646	3075.939	3187.925	3242.414	3266.595
##	[8167]	3260.854	3270.343	3351.729	3405.765	3409.530	3400.258
##	[8173]	3390.644	3384.938	3410.280	3537.620	3855.517	3951.234
##	[8179]	3946.376	3940.159	3934.518	3930.178	3923.349	3912.916
##	[8185]	3905.640	3905.186	3920.032	3915.994	3911.867	4219.676
##	[8191]	4752.888	5022.539	5021.221	5888.034	6934.982	6944.235
##	[8197]	7008.112	7131.726	7191.376	7313.461	7555.538	7699.887
##	[8203]	7707.661	7699.724	7693.380	7688.263	7703.200	7837.224
##	[8209]	8022.496	8147.293	8318.801	8553.311	8703.846	8700.353

##	[8215]	8707.121	8844.981	8944.646	9120.194	9321.097	9502.179
##	[8221]	9713.452	9820.601	9827.331	9862.571	9876.065	10185.983
##	[8227]	10372.786	10364.480	10399.162	10572.795	10777.816	11413.995
##	[8233]	12943.273	15412.985	16401.150	16396.710	17466.262	19551.310
##	[8239]	20918.276	21401.194	21416.176	21409.718	21472.065	21710.956
##	[8245]	21834.658	21827.571	21817.793	21810.334	21803.156	21817.145
##	[8251]	21850.496	21863.803	21876.895	21900.199	21936.657	21932.317
##	[8257]	21925.614	21919.008	21917.414	21914.970	22002.627	22005.495
##	[8263]	21996.561	21991.405	22001.833	22045.925	22154.808	22210.597
##	[8269]	22210.114	22201.381	22197.489	22189.972	22194.682	22211.630
##	[8275]	22206.152	22197.576	22225.951	22409.258	22673.318	22667.224
##	[8281]	22707.815	22856.543	22852.656	22842.123	22832.536	22887.196
##	[8287]	22893.345	22891.964	22948.036	22971.707	22965.966	22965.516
##	[8293]	22975.302	22966.401	22956.983	22974.960	22968.048	22960.342
##	[8299]	22956.517	22971.892	22968.928	23195.581	23235.060	23228.688
##	[8305]	23310.074	23321.092	23392.037	23532.036	23532.036	23751.331
##	[8311]	24159.469	24525.451	24794.207	24897.002	24893.478	24885.173
##	[8317]	24885.941	24884.561	24889.024	24898.277	24901.592	24901.177
##	[8323]	24904.010	24904.516	24905.675	24909.447	24915.897	24924.278
##	[8329]	24926.008	24929.243	24937.021	24945.955	24951.311	24948.362
##	[8335]	24999.990	25166.495	25238.427	25152.910	25054.297	25058.791
##	[8341]	24842.474	24534.296	24422.732	24422.985	24415.329	24416.372
##	[8347]	24416.109	24410.197	24387.577	24389.085	24384.485	24388.049
##	[8353]	24375.878	24302.915	24192.345	24148.838	24145.579	24146.194
##	[8359]	24143.020	24147.410	24139.993	24135.857	24086.281	24048.641
##	[8365]	23927.529	23871.739	23845.924	23842.511	23825.231	23753.000
##	[8371]	23759.982	23843.990	23846.874	23847.014	23844.094	23809.327
##	[8377]	23673.039	23344.592	23243.453	23244.091	23247.797	23247.832
##	[8383]	23248.171	23255.000	23260.650	23261.959	23254.279	23232.634
##	[8389]	23232.072	23233.235	22922.879	22387.396	22118.641	22118.689
##	[8395]	21246.759	20191.332	20175.501	20104.646	19973.811	19908.196
##	[8401]	19783.838	19541.761	19396.555	19385.149	19394.326	19399.834
##	[8407]	19404.497	19386.292	19250.593	19062.871	18933.634	18759.914
##	[8413]	18523.237	18370.949	18373.201	18366.432	18226.555	18126.890
##	[8419]	17951.342	17746.453	17565.775	17352.788	17245.638	17234.469
##	[8425]	17198.776	17184.465	16875.817	16687.714	16696.433	16659.734
##	[8431]	16482.214	16272.529	15635.170	14107.605	11636.220	10647.178
##	[8437]	10649.047	9579.495	7494.448	6127.915	5642.032	5626.657
##	[8443]	5631.815	5568.226	5328.932	5206.944	5216.542	5226.773
##	[8449]	5231.662	5238.840	5222.026	5188.675	5176.264	5161.418
##	[8455]	5134.846	5097.985	5101.508	5109.392	5114.363	5117.711
##	[8461]	5122.606	5037.117	5032.495	5041.873	5046.131	5034.807
##	[8467]	4990.281	4880.502	4826.466	4827.846	4836.578	4842.184
##	[8473]	4850.559	4845.848	4830.654	4835.235	4842.058	4812.806
##	[8479]	4628.228	4364.169	4370.263	4327.554	4179.250	4181.463
##	[8485]	4191.099	4197.722	4143.918	4136.440	4137.367	4079.622
##	[8491]	4052.603	4057.487	4059.207	4048.967	4058.302	4066.863
##	[8497]	4048.886	4052.834	4059.239	4063.065	4048.083	4048.477
##	[8503]	3820.967	3780.650	3786.186	3702.229	3692.931	3621.985
##	[8509]	3482.410	3484.004	3264.709	2857.024	2490.599	2220.513
##	[8515]	2116.388	2120.315	2129.034	2130.383	2131.763	2126.847
##	[8521]	2118.471	2118.943	2128.523	2134.868	2139.371	2144.396
##	[8527]	2148.288	2150.620	2151.890	2160.637	2166.219	2167.933
##	[8533]	2167.076	2170.026	2177.056	2125.924	1969.973	1902.410

##	[8539]	1907.889	1916.367	1915.959	1915.266	1919.376	1924.424
##	[8545]	1929.060	1937.159	1945.100	1948.221	1944.334	1941.629
##	[8551]	1945.480	1948.485	1948.111	1950.588	1953.482	1961.424
##	[8557]	1971.127	1973.562	1976.076	1985.920	1991.676	1999.969
##	[8563]	1958.822	1833.494	1774.600	1783.273	1782.456	1780.303
##	[8569]	1785.915	1791.434	1778.193	1714.605	1627.729	1634.116
##	[8575]	1644.487	1652.295	1660.391	1666.151	1676.699	1682.545
##	[8581]	1687.662	1690.173	1693.662	1698.520	1698.096	1701.549
##	[8587]	1709.151	1715.531	1723.187	1729.087	1730.721	1734.941
##	[8593]	1737.213	1735.883	1737.154	1741.374	1748.139	1753.881
##	[8599]	1759.981	1767.655	1774.035	1777.578	1778.021	1779.774
##	[8605]	1783.407	1784.737	1785.150	1784.707	1787.098	1788.339
##	[8611]	1791.234	1795.673	1800.456	1802.170	1803.027	1802.249
##	[8617]	1803.106	1806.001	1805.577	1803.510	1807.949	1810.116
##	[8623]	1811.830	1809.438	1812.981	1809.713	1811.830	1812.727
##	[8629]	1813.584	1814.440	1816.035	1820.365	1824.585	1827.036
##	[8635]	1827.036	1827.036	1827.470	1829.144	1828.690	1828.690
##	[8641]	1828.690	1831.201	1833.269	1834.126	1836.243	1837.484
##	[8647]	1835.770	1835.327	1832.756	1831.979	1833.732	1836.557
##	[8653]	1833.986	1833.533	1835.287	1839.008	1841.579	1842.820
##	[8659]	1844.090	1847.054	1847.054	1846.621	1846.621	1847.921
##	[8665]	1848.374	1847.941	1848.384	1849.715	1849.715	1849.715
##	[8671]	1848.384	1847.961	1846.661	1847.557	1850.009	1849.555
##	[8677]	1850.452	1850.452	1847.343	1847.343	1843.621	1841.051
##	[8683]	1840.273	1841.603	1843.277	1844.174	1846.685	1843.860
##	[8689]	1844.737	1844.293	1846.411	1848.005	1847.592	1847.158
##	[8695]	1847.158	1848.055	1849.808	1850.242	1853.206	1853.206
##	[8701]	1854.536	1857.107	1859.224	1860.081	1859.284	1860.121
##	[8707]	1856.338	1856.338	1857.669	1856.832	1854.863	1853.533
##	[8713]	1853.533	1853.533	1853.110	1854.440	1855.710	1855.710
##	[8719]	1855.710	1853.957	1853.513	1853.967	1855.297	1856.194
##	[8725]	1857.070	1859.237	1858.361	1857.180	1858.933	1858.500
##	[8731]	1857.603	1858.933	1857.633	1854.947	1854.544	1856.138
##	[8737]	1856.592	1854.838	1853.961	1853.508	1853.508	1853.508
##	[8743]	1855.840	1857.170	1857.544	1858.361	1857.484	1856.647
##	[8749]	1856.293	1857.355	1860.543	1862.875	1864.893	1867.718
##	[8755]	1868.929	1869.382	1870.712	1870.712	1870.289	1872.356
##	[8761]	1871.460	1870.563	1870.120	1868.789	1867.992	1870.563
##	[8767]	1869.263	1870.503	1875.620	1880.059	1884.499	1887.687
##	[8773]	1890.258	1889.361	1888.031	1888.031	1890.149	1891.479
##	[8779]	1892.994	1892.097	1891.260	1889.506	1889.960	1892.077
##	[8785]	1892.077	1893.377	1894.254	1893.831	1895.131	1895.574
##	[8791]	1895.131	1896.461	1896.461	1897.731	1898.165	1897.308
##	[8797]	1898.205	1899.042	1901.209	1902.085	1901.632	1903.386
##	[8803]	1902.952	1903.406	1900.441	1900.895	1898.324	1899.624
##	[8809]	1897.557	1898.433	1899.764	1899.764	1893.704	1887.949
##	[8815]	1883.620	1876.168	1872.340	1872.340	1865.364	1856.971
##	[8821]	1849.621	1839.188	1832.835	1827.229	1827.987	1824.100
##	[8827]	1822.381	1813.408	1807.055	1802.197	1826.764	2024.889
##	[8833]	2148.503	2144.920	2135.510	2156.413	2204.268	2236.666
##	[8839]	2246.097	2247.431	2237.349	2235.675	2226.857	2217.522
##	[8845]	2207.869	2200.892	2192.932	2219.601	2271.177	2271.130
##	[8851]	2270.393	2264.333	2256.882	2255.731	2254.017	2252.215
##	[8857]	2285.566	2304.464	2385.833	2553.781	2670.497	2673.365

##	[8863]	2669.872	2667.705	2674.888	2894.184	3044.263	3072.638
##	[8869]	3077.653	3179.848	3482.585	3885.850	4131.027	4126.143
##	[8875]	5476.124	9796.713	12789.785	13063.275	13107.196	13560.684
##	[8881]	13985.085	14191.311	14194.290	14197.638	14187.088	14186.654
##	[8887]	14192.231	14268.740	14262.147	14312.181	14316.999	14324.182
##	[8893]	14424.270	14533.783	14763.043	15123.574	15431.325	15529.659
##	[8899]	15523.918	15550.970	15570.861	15570.408	15560.093	15553.341
##	[8905]	15543.810	15603.098	16504.987	17709.697	18428.632	18728.877
##	[8911]	18774.240	18767.484	18821.722	19010.056	19038.874	19083.824
##	[8917]	19153.439	19212.986	19204.781	19233.156	19297.126	19610.827
##	[8923]	19713.622	19705.948	19712.096	19742.241	19839.108	19952.424
##	[8929]	20001.057	20036.297	20035.010	20025.399	20017.969	20010.279
##	[8935]	20046.220	20041.331	20040.120	20029.609	20021.641	20021.591
##	[8941]	20017.917	20013.587	20061.000	20141.454	20150.610	20146.498
##	[8947]	20138.531	20129.325	20304.229	21105.884	21567.772	21560.967
##	[8953]	21579.366	21688.042	21805.655	21828.648	21818.269	21809.163
##	[8959]	21804.833	21823.974	21875.550	22026.981	22266.825	22375.067
##	[8965]	22386.184	22392.538	22384.379	22375.761	22377.091	22370.454
##	[8971]	22367.837	22394.028	22411.571	22452.719	22576.776	22575.536
##	[8977]	22722.509	22781.613	22800.511	23105.819	23384.981	23428.296
##	[8983]	23420.218	23416.091	23406.398	23396.746	23387.910	23382.304
##	[8989]	23373.522	23371.405	23361.899	23376.579	23404.501	23518.950
##	[8995]	23588.204	23579.974	23572.022	23567.199	23573.544	23598.886
##	[9001]	23637.488	23639.796	23632.121	23645.863	23661.778	23659.920
##	[9007]	23655.480	23649.098	23649.046	23656.473	23679.777	23687.700
##	[9013]	23678.432	23674.904	23861.115	24068.402	24127.429	24124.133
##	[9019]	24120.590	24117.864	24128.418	24168.425	24234.032	24296.708
##	[9025]	24381.468	24501.148	24552.275	24547.653	24549.649	24545.688
##	[9031]	24540.935	24507.677	24304.635	24173.102	24184.903	24199.131
##	[9037]	24172.295	24126.957	24098.845	24098.234	24087.208	24087.512
##	[9043]	24101.161	24146.633	24191.155	24193.545	24198.358	24230.499
##	[9049]	24213.920	24154.471	24153.367	24147.732	24147.697	24145.509
##	[9055]	24138.804	24131.864	24128.226	24094.875	24073.012	23986.915
##	[9061]	23812.687	23685.499	23672.077	23666.668	23663.080	23655.021
##	[9067]	23432.377	23279.543	23246.504	23234.577	23129.557	22817.549
##	[9073]	22405.243	22151.387	22147.868	20790.212	16461.773	13461.218
##	[9079]	13183.963	13135.702	12677.700	12245.508	12032.470	12022.636
##	[9085]	12017.519	12024.347	12024.347	12016.603	11939.651	11948.636
##	[9091]	11899.055	11893.380	11886.197	11786.532	11675.838	11445.338
##	[9097]	11082.690	10772.772	10672.270	10675.560	10644.423	10622.563
##	[9103]	10622.563	10628.792	10633.832	10642.505	10583.611	9678.966
##	[9109]	8478.039	7758.741	7454.410	7407.493	7416.639	7357.977
##	[9115]	7166.679	7137.861	7092.497	7021.985	6963.335	6971.963
##	[9121]	6942.712	6879.599	6566.341	6459.107	6466.328	6459.283
##	[9127]	6428.261	6330.940	6215.990	6167.358	6132.117	6134.735
##	[9133]	6142.672	6146.016	6152.889	6118.817	6124.109	6125.744
##	[9139]	6134.925	6141.681	6142.609	6144.982	6145.326	6096.584
##	[9145]	6016.553	6007.397	6014.857	6022.824	6033.360	5859.293
##	[9151]	5061.181	4601.684	4607.219	4586.851	4478.175	4361.460
##	[9157]	4337.255	4346.304	4354.514	4358.844	4339.289	4288.610
##	[9163]	4134.727	3892.816	3783.303	3773.517	3767.162	3775.322
##	[9169]	3785.693	3783.123	3789.760	3791.047	3764.402	3744.408
##	[9175]	3702.807	3578.750	3581.320	3432.593	3371.775	3350.306
##	[9181]	3047.116	2765.887	2723.409	2732.343	2736.017	2745.267

##	[9187]	2755.815	2763.775	2769.834	2777.022	2776.244	2784.450
##	[9193]	2765.883	2733.876	2620.324	2551.070	2558.442	2567.252
##	[9199]	2571.621	2566.606	2540.368	2499.648	2496.040	2502.385
##	[9205]	2486.626	2470.257	2474.183	2478.169	2487.122	2487.627
##	[9211]	2482.267	2458.963	2450.588	2458.978	2468.112	2287.657
##	[9217]	2085.153	2031.125	2041.144	2043.416	2051.002	2046.508
##	[9223]	2011.700	1952.440	1896.116	1814.845	1698.129	1649.215
##	[9229]	1655.930	1658.243	1664.118	1673.296	1681.129	1683.016
##	[9235]	1691.389	1683.171	1679.249	1684.306	1684.360	1680.073
##	[9241]	1671.697	1678.495	1686.559	1674.150	1637.950	1603.659
##	[9247]	1610.065	1612.682	1588.935	1580.116	1588.885	1592.607
##	[9253]	1599.363	1603.291	1609.741	1616.820	1620.809	1622.165
##	[9259]	1621.711	1620.236	1623.331	1628.340	1637.482	1644.315
##	[9265]	1651.581	1650.699	1647.590	1646.499	1648.830	1651.377
##	[9271]	1655.324	1657.292	1663.599	1673.517	1683.950	1690.759
##	[9277]	1696.266	1702.049	1707.414	1709.426	1715.066	1723.122
##	[9283]	1731.751	1742.284	1751.710	1756.827	1759.219	1758.382
##	[9289]	1760.096	1760.539	1760.972	1758.402	1757.585	1754.316
##	[9295]	1753.893	1755.487	1753.972	1755.213	1754.809	1752.891
##	[9301]	1754.485	1758.571	1759.722	1759.722	1763.807	1763.404
##	[9307]	1762.193	1763.010	1767.096	1767.913	1770.668	1774.753
##	[9313]	1775.904	1777.235	1782.093	1783.727	1784.624	1784.220
##	[9319]	1783.787	1782.033	1781.196	1779.956	1779.099	1778.655
##	[9325]	1780.928	1780.051	1780.947	1782.278	1778.292	1778.685
##	[9331]	1781.580	1780.683	1778.930	1778.930	1780.051	1782.621
##	[9337]	1784.739	1785.576	1786.453	1786.886	1788.097	1788.550
##	[9343]	1790.304	1791.779	1792.655	1793.985	1793.089	1793.089
##	[9349]	1794.842	1793.089	1793.522	1794.419	1795.749	1795.749
##	[9355]	1796.506	1795.669	1794.773	1797.737	1799.067	1795.525
##	[9361]	1793.407	1793.821	1791.250	1792.431	1792.431	1789.157
##	[9367]	1785.072	1785.869	1785.869	1782.904	1783.308	1781.141
##	[9373]	1782.471	1782.924	1783.702	1781.988	1781.988	1777.549
##	[9379]	1776.338	1775.541	1774.390	1774.843	1776.477	1777.807
##	[9385]	1777.374	1774.479	1774.923	1774.026	1774.459	1774.006
##	[9391]	1776.901	1779.795	1781.549	1785.879	1789.511	1789.057
##	[9397]	1786.990	1783.626	1780.438	1778.320	1774.972	1775.869
##	[9403]	1777.110	1778.410	1777.573	1779.167	1778.290	1778.734
##	[9409]	1779.187	1778.734	1778.734	1779.631	1780.084	1779.207
##	[9415]	1777.966	1778.420	1777.090	1773.742	1776.193	1775.316
##	[9421]	1776.153	1776.153	1778.072	1779.841	1783.926	1783.473
##	[9427]	1783.473	1780.902	1780.125	1779.387	1778.749	1778.405
##	[9433]	1777.568	1777.568	1780.184	1776.837	1775.566	1775.566
##	[9439]	1776.443	1774.276	1774.276	1770.290	1770.674	1768.058
##	[9445]	1765.302	1761.581	1759.010	1758.193	1757.739	1757.306
##	[9451]	1757.306	1754.735	1752.165	1752.165	1750.984	1754.616
##	[9457]	1757.964	1763.081	1765.413	1764.536	1766.808	1766.425
##	[9463]	1768.138	1767.301	1766.584	1764.431	1767.720	1770.830
##	[9469]	1773.515	1775.269	1776.943	1779.010	1779.010	1780.645
##	[9475]	1779.344	1777.177	1777.177	1778.891	1780.959	1782.199
##	[9481]	1782.623	1782.623	1782.189	1783.519	1783.066	1782.613
##	[9487]	1780.042	1780.475	1782.189	1779.295	1777.581	1777.581
##	[9493]	1779.698	1781.815	1785.084	1786.384	1784.790	1788.422
##	[9499]	1788.855	1791.426	1794.615	1794.615	1791.650	1792.054
##	[9505]	1792.507	1791.611	1793.285	1796.249	1798.002	1798.002



##	[9511]	1799.756	1801.086	1798.515	1799.333	1794.893	1793.219
##	[9517]	1787.374	1778.102	1772.764	1765.518	1756.839	1750.873
##	[9523]	1744.017	1736.481	1727.221	1726.818	1720.014	1720.014
##	[9529]	1711.083	1705.045	1697.301	1691.660	1685.614	1679.234
##	[9535]	1691.591	1725.147	1740.342	1732.026	1733.356	1726.107
##	[9541]	1717.282	1708.487	1707.157	1698.605	1691.263	1689.549
##	[9547]	1681.201	1676.038	1680.502	1790.931	1910.997	1902.787
##	[9553]	1903.195	1902.247	1898.623	1895.832	1888.169	1884.282
##	[9559]	1894.069	1996.864	2063.519	2057.514	2059.676	2200.492
##	[9565]	2448.335	2701.512	2754.366	2747.902	2801.857	2916.986
##	[9571]	3126.592	3376.699	3386.789	3384.622	3374.088	3369.229
##	[9577]	3366.240	3396.829	3430.070	3426.364	3428.875	3436.518
##	[9583]	3468.940	3700.383	4538.190	5013.082	5212.801	5203.424
##	[9589]	5313.203	5650.138	6214.963	7016.646	7643.968	7716.129
##	[9595]	7711.799	7710.086	7715.554	7742.189	7756.462	7750.960
##	[9601]	7754.411	7868.188	8022.324	8078.828	8081.136	8074.177
##	[9607]	8282.573	8961.609	9574.764	10208.776	10717.536	10888.368
##	[9613]	10881.456	10886.471	10893.378	10897.311	10887.724	10891.922
##	[9619]	10899.192	10890.645	10894.843	10888.997	10901.996	10989.652
##	[9625]	10995.356	10985.930	11236.596	11604.695	11621.750	11614.719
##	[9631]	11617.424	11619.414	11616.038	11614.441	11906.571	11949.886
##	[9637]	11979.425	12442.818	12544.117	12536.661	12536.211	12536.159
##	[9643]	12876.637	13242.399	13382.006	13406.541	13441.764	13438.856
##	[9649]	13434.251	13434.704	13432.313	13429.488	13426.941	13419.925
##	[9655]	13412.826	13443.226	13717.170	14130.644	14318.978	14327.461
##	[9661]	14322.732	14315.793	14312.754	14354.354	14414.003	14412.688
##	[9667]	14484.914	14676.596	14667.863	14668.669	14658.723	14649.112
##	[9673]	14677.930	14733.720	14826.149	14822.111	15137.082	15855.643
##	[9679]	16314.263	16376.178	16368.236	16411.733	16548.716	16730.502
##	[9685]	16884.637	17033.840	17141.639	17216.371	17262.552	17267.469
##	[9691]	17261.527	17253.988	17254.885	17246.591	17237.086	17228.963
##	[9697]	17237.951	17274.650	17315.241	17327.878	17318.588	17317.731
##	[9703]	17316.137	17318.648	17320.361	17319.465	17318.194	17313.974
##	[9709]	17306.798	17306.798	17304.227	17302.060	17302.060	17303.301
##	[9715]	17302.887	17303.605	17305.279	17309.884	17314.038	17318.983
##	[9721]	17317.026	17317.031	17320.726	17320.446	17326.388	17327.101
##	[9727]	17366.841	17386.714	17377.009	17379.881	17383.688	17401.324
##	[9733]	17417.204	17414.704	17416.484	17400.060	17362.557	17340.725
##	[9739]	17340.068	17331.516	17334.435	17339.373	17341.369	17334.790
##	[9745]	17337.902	17344.860	17347.027	17351.654	17353.627	17349.164
##	[9751]	17238.735	17117.075	17123.610	17120.238	17119.856	17124.750
##	[9757]	17129.175	17137.676	17139.111	17128.428	17025.632	16962.520
##	[9763]	16971.096	16969.791	16831.092	16584.962	16331.402	16282.236
##	[9769]	16291.889	16236.753	16117.902	15907.538	15656.634	15643.929
##	[9775]	15642.748	15651.114	15655.580	15660.282	15626.505	15594.355
##	[9781]	15598.858	15596.741	15592.366	15559.944	15325.745	14483.853
##	[9787]	14006.943	13806.133	13814.633	13705.751	13367.546	12800.210
##	[9793]	11996.409	11364.100	11288.590	11290.409	11291.680	11284.911
##	[9799]	11260.787	11251.178	11257.801	11253.956	11141.360	10983.877
##	[9805]	10927.805	10922.603	10930.833	10724.190	10044.731	9432.029
##	[9811]	8797.121	8288.814	8115.815	8121.396	8113.033	8105.703
##	[9817]	8103.444	8111.278	8108.409	8104.034	8112.148	8109.280
##	[9823]	8115.559	8105.131	8019.642	8015.956	8024.485	7773.376
##	[9829]	7407.394	7389.945	7398.157	7398.641	7400.652	7407.057

##	[9835]	7409.492	7115.768	7073.723	7047.532	6584.139	6480.673
##	[9841]	6487.685	6489.849	6488.630	6149.628	5783.482	5647.762
##	[9847]	5625.559	5593.604	5596.915	5603.194	5603.194	5606.019
##	[9853]	5609.288	5611.057	5620.644	5627.742	5597.343	5322.099
##	[9859]	4906.871	4718.537	4710.911	4712.884	4721.094	4727.028
##	[9865]	4685.427	4623.162	4624.832	4552.939	4362.035	4372.097
##	[9871]	4372.149	4381.198	4391.706	4363.331	4307.541	4215.546
##	[9877]	4219.170	3906.366	3187.805	2725.552	2660.813	2669.188
##	[9883]	2626.568	2490.038	2309.129	2154.994	2005.348	1895.835
##	[9889]	1821.920	1775.305	1767.878	1775.414	1784.666	1782.913
##	[9895]	1791.660	1799.048	1802.841	1792.553	1756.631	1711.710
##	[9901]	1698.217	1707.507	1708.807	1708.807	1708.807	1708.807
##	[9907]	1709.704	1711.417	1716.534	1723.257	1721.927	1724.498
##	[9913]	1726.211	1724.044	1724.478	1723.297	1727.018	1726.162
##	[9919]	1726.162	1727.557	1730.521	1739.724	1749.254	1753.694
##	[9925]	1762.069	1765.417	1774.408	1736.785	1722.474	1732.180
##	[9931]	1736.072	1738.657	1731.335	1721.096	1726.817	1731.004
##	[9937]	1735.887	1740.228	1744.295	1751.554	1756.385	1760.271
##	[9943]	1762.887	1771.440	1779.349	1782.219	1782.219	1778.871
##	[9949]	1778.871	1778.517	1774.432	1772.265	1775.159	1777.730
##	[9955]	1779.798	1779.374	1780.271	1779.030	1779.464	1781.482
##	[9961]	1781.482	1780.151	1779.718	1777.551	1778.448	1778.448
##	[9967]	1778.004	1780.022	1781.322	1780.889	1783.784	1787.052
##	[9973]	1790.774	1792.841	1796.294	1798.745	1800.459	1802.093
##	[9979]	1802.547	1804.879	1806.896	1808.610	1810.284	1809.841
##	[9985]	1809.841	1813.926	1817.558	1818.739	1823.178	1821.544
##	[9991]	1820.648	1821.918	1824.429	1826.546	1829.820	1832.715
##	[9997]	1834.782	1833.512	1835.266	1834.822	1835.276	1836.910
##	[10003]	1839.421	1841.588	1843.606	1843.606	1845.624	1846.067
##	[10009]	1845.614	1847.367	1846.914	1847.811	1846.914	1847.751
##	[10015]	1849.081	1851.976	1851.562	1851.129	1849.534	1848.204
##	[10021]	1845.693	1846.127	1846.127	1847.023	1847.023	1841.906
##	[10027]	1842.340	1839.888	1839.455	1839.908	1841.542	1842.813
##	[10033]	1843.710	1844.133	1845.887	1845.463	1848.811	1848.811
##	[10039]	1846.644	1848.811	1849.648	1846.459	1843.948	1846.115
##	[10045]	1848.183	1851.078	1850.644	1849.827	1845.841	1846.255
##	[10051]	1847.151	1845.821	1844.147	1843.704	1845.722	1845.722
##	[10057]	1847.789	1850.241	1851.098	1852.398	1851.945	1849.493
##	[10063]	1853.125	1850.300	1847.789	1845.672	1848.702	1850.620
##	[10069]	1855.403	1857.974	1857.077	1855.403	1854.133	1852.803
##	[10075]	1853.256	1853.679	1853.679	1854.516	1854.516	1856.534
##	[10081]	1857.655	1860.047	1860.047	1857.536	1857.536	1857.093
##	[10087]	1856.639	1854.965	1856.679	1858.433	1859.763	1862.274
##	[10093]	1863.131	1862.254	1863.554	1862.657	1860.445	1861.506
##	[10099]	1861.093	1861.910	1864.940	1866.240	1866.240	1864.122
##	[10105]	1867.470	1867.924	1868.377	1867.480	1867.480	1866.150
##	[10111]	1866.150	1864.910	1864.910	1863.609	1865.777	1865.343
##	[10117]	1866.120	1866.120	1865.707	1866.524	1870.246	1868.079
##	[10123]	1868.079	1868.079	1867.182	1866.345	1862.997	1860.880
##	[10129]	1858.762	1858.369	1855.798	1856.211	1860.297	1860.297
##	[10135]	1858.180	1859.734	1860.571	1862.325	1863.999	1866.569
##	[10141]	1867.406	1871.128	1872.025	1871.227	1870.331	1870.331
##	[10147]	1872.448	1875.796	1877.390	1880.659	1885.098	1887.853
##	[10153]	1887.450	1887.006	1884.839	1883.982	1884.406	1883.509

##	[10159]	1885.183	1886.080	1886.080	1885.647	1884.012	1883.175
##	[10165]	1885.342	1884.889	1885.342	1885.342	1885.776	1885.333
##	[10171]	1884.909	1884.466	1884.919	1883.165	1884.062	1884.496
##	[10177]	1885.392	1885.846	1887.176	1885.009	1886.762	1886.762
##	[10183]	1886.319	1887.215	1886.782	1885.452	1882.488	1882.941
##	[10189]	1883.778	1883.325	1884.959	1881.072	1874.295	1865.322
##	[10195]	1858.863	1850.980	1842.881	1841.207	1841.207	1832.859
##	[10201]	1824.824	1815.552	1808.330	1805.819	1805.366	1798.562
##	[10207]	1788.924	1780.022	1773.564	1764.072	1754.501	1745.008
##	[10213]	1735.902	1727.867	1723.138	1716.226	1711.238	1713.406
##	[10219]	1705.310	1702.304	1697.540	1696.024	1689.462	1718.264
##	[10225]	2028.536	2290.263	2299.844	2326.082	2644.776	3164.098
##	[10231]	3610.128	3659.949	3650.419	3642.989	3636.160	3651.355
##	[10237]	3662.264	3661.315	3653.660	3652.817	3734.203	3788.440
##	[10243]	3806.309	3802.330	3792.090	3782.935	3773.158	3802.409
##	[10249]	3955.515	4036.009	4028.656	4201.393	4648.753	4731.362
##	[10255]	4727.142	4718.241	4708.970	4705.781	4702.550	4709.595
##	[10261]	4782.210	5316.995	5926.021	6016.156	6012.966	6010.489
##	[10267]	6062.641	6335.512	6462.476	6487.818	6544.141	6589.273
##	[10273]	6599.766	6882.601	7090.573	7085.750	7095.614	7303.153
##	[10279]	7717.957	8061.919	8315.745	8438.627	8465.299	8455.723
##	[10285]	8457.791	8461.181	8542.116	8639.437	8659.394	8653.210
##	[10291]	8656.078	8654.325	8957.515	9310.387	9334.567	9324.548
##	[10297]	9364.584	9367.564	9360.809	9352.543	9343.925	9339.888
##	[10303]	9336.255	9331.816	10602.387	12635.643	12976.953	13004.875
##	[10309]	13533.538	14125.741	14419.900	14543.514	14564.223	14564.169
##	[10315]	14665.734	14655.307	14771.766	15164.891	15224.720	15216.941
##	[10321]	15236.832	15228.063	15220.084	15210.864	15204.555	15235.143
##	[10327]	15325.584	15319.345	15311.439	15308.892	15328.503	15503.810
##	[10333]	15697.896	15825.996	15930.298	16010.242	16009.399	16045.970
##	[10339]	16265.265	16637.182	16999.980	17227.067	17270.263	17413.715
##	[10345]	17685.435	17901.369	18005.672	18002.733	17994.385	17990.079
##	[10351]	17981.957	18051.572	18251.308	18479.635	18662.942	18681.024
##	[10357]	18684.632	18836.497	19205.664	19550.522	19596.865	19594.110
##	[10363]	19603.974	19666.767	19674.511	19670.384	19681.265	19728.677
##	[10369]	19761.075	19753.040	19761.860	19767.003	19773.476	19853.515
##	[10375]	19908.176	19904.783	19914.835	19906.066	19900.625	19890.904
##	[10381]	19882.757	19873.169	19883.033	19884.810	19877.604	19868.694
##	[10387]	19859.878	19853.716	19854.124	19855.863	19845.883	19838.107
##	[10393]	19834.338	19832.569	19831.688	19828.123	19828.215	19826.822
##	[10399]	19819.086	19818.683	19825.650	19871.752	19915.314	19939.782
##	[10405]	19935.316	19925.215	19940.670	20055.507	20412.361	20717.036
##	[10411]	20816.663	20819.058	20867.153	21035.871	21227.213	21320.148
##	[10417]	21408.446	21423.674	21413.120	21415.115	21411.406	21407.260
##	[10423]	21401.207	21398.426	21362.681	21045.738	20775.639	20762.406
##	[10429]	20726.529	20403.274	19878.371	19425.703	19375.882	19384.978
##	[10435]	19387.291	19392.880	19372.568	19358.974	19358.168	19363.373
##	[10441]	19360.029	19272.888	19214.540	19193.845	19196.703	19204.373
##	[10447]	19214.424	19223.758	19195.383	19042.278	18957.291	18955.970
##	[10453]	18776.596	18325.125	18238.175	18239.570	18246.453	18255.725
##	[10459]	18258.913	18262.144	18254.666	18181.608	17647.276	17039.430
##	[10465]	16949.749	16956.661	16962.102	16911.191	16638.320	16509.801
##	[10471]	16484.460	16427.240	16380.434	16372.511	16091.843	15883.034
##	[10477]	15886.103	15873.484	15664.271	15250.797	14906.382	14652.990

##	[10483]	14533.072	14506.400	14516.872	14515.198	14508.844	14428.352
##	[10489]	14331.032	14313.644	14319.829	14316.960	14318.261	14014.627
##	[10495]	13659.688	13633.873	13641.775	13599.288	13598.924	13607.647
##	[10501]	13615.913	13624.531	13626.236	13630.322	13634.761	12366.761
##	[10507]	10331.752	9989.988	9961.169	9432.950	8840.303	8546.578
##	[10513]	8423.417	8399.524	8398.248	8293.997	8303.094	8186.635
##	[10519]	7796.081	7731.813	7737.673	7719.535	7726.551	7735.800
##	[10525]	7745.454	7751.330	7719.067	7627.072	7632.937	7642.084
##	[10531]	7644.631	7627.531	7454.341	7262.008	7131.338	7027.036
##	[10537]	6947.495	6949.609	6913.471	6694.176	6319.434	5954.469
##	[10543]	5728.259	5682.492	5538.587	5269.378	5051.770	4943.746
##	[10549]	4946.685	4953.279	4956.374	4963.196	4889.859	4688.883
##	[10555]	4460.959	4277.652	4261.284	4256.858	4102.238	3729.883
##	[10561]	3384.592	3337.795	3341.427	3329.929	3269.203	3261.056
##	[10567]	3265.183	3251.407	3200.273	3166.201	3175.133	3167.210
##	[10573]	3162.490	3156.913	3076.875	3023.514	3026.907	3017.751
##	[10579]	3023.557	3028.998	3038.265	3048.126	3057.260	3047.396
##	[10585]	3044.762	3049.398	3056.674	3066.820	3074.616	3070.122
##	[10591]	3069.714	3078.393	3085.746	3092.969	3101.959	3112.265
##	[10597]	3122.742	3131.804	3141.750	3152.056	3154.627	3154.677
##	[10603]	3115.340	3081.050	3065.134	3071.668	3078.136	3067.093
##	[10609]	2959.443	2611.067	2311.550	2220.972	2227.252	2186.935
##	[10615]	2025.570	1840.589	1752.816	1668.082	1655.725	1660.524
##	[10621]	1662.837	1669.178	1675.697	1683.266	1693.053	1698.666
##	[10627]	1705.336	1711.955	1717.002	1725.371	1732.383	1738.841
##	[10633]	1743.725	1745.055	1742.300	1746.087	1744.936	1746.705
##	[10639]	1749.391	1748.180	1751.075	1755.674	1760.976	1766.417
##	[10645]	1772.432	1776.517	1779.088	1778.191	1778.635	1778.635
##	[10651]	1781.205	1790.137	1799.667	1803.734	1807.008	1810.955
##	[10657]	1811.329	1812.106	1810.776	1811.673	1811.673	1812.106
##	[10663]	1811.673	1810.343	1812.510	1811.613	1811.160	1811.160
##	[10669]	1811.593	1812.450	1814.842	1813.088	1813.531	1816.102
##	[10675]	1814.772	1813.018	1814.732	1815.589	1819.675	1821.792
##	[10681]	1821.339	1821.792	1822.235	1819.665	1820.995	1820.995
##	[10687]	1821.398	1823.032	1819.764	1818.464	1815.500	1814.199
##	[10693]	1813.746	1812.869	1812.012	1813.223	1816.187	1817.004
##	[10699]	1817.004	1817.004	1817.861	1819.575	1821.329	1823.660
##	[10705]	1823.207	1823.207	1823.207	1824.064	1824.064	1822.390
##	[10711]	1822.843	1822.410	1821.553	1819.800	1822.984	1822.984
##	[10717]	1826.526	1824.892	1824.055	1821.091	1825.077	1828.709
##	[10723]	1827.379	1829.133	1828.699	1825.874	1821.449	1821.449
##	[10729]	1824.274	1824.274	1825.604	1825.211	1824.767	1823.891
##	[10735]	1821.320	1822.560	1819.212	1817.294	1814.105	1812.038
##	[10741]	1809.871	1812.262	1810.708	1808.197	1810.767	1808.650
##	[10747]	1805.755	1803.887	1806.712	1804.998	1804.181	1806.692
##	[10753]	1807.549	1809.517	1810.334	1811.604	1809.930	1810.384
##	[10759]	1812.501	1815.256	1817.175	1818.051	1817.608	1815.491
##	[10765]	1817.558	1816.701	1817.519	1815.765	1819.113	1822.835
##	[10771]	1823.238	1821.071	1819.318	1818.894	1818.894	1816.727
##	[10777]	1817.180	1817.180	1817.180	1820.145	1818.391	1813.727
##	[10783]	1812.427	1811.550	1812.880	1813.304	1814.121	1815.755
##	[10789]	1812.033	1808.246	1809.368	1808.471	1809.771	1808.177
##	[10795]	1806.936	1805.222	1804.769	1804.769	1804.769	1804.316
##	[10801]	1803.862	1803.862	1804.296	1806.463	1803.499	1803.499

##	[10807]	1803.942	1805.457	1808.282	1811.176	1810.763	1812.063
##	[10813]	1812.507	1813.403	1813.403	1815.157	1817.728	1818.171
##	[10819]	1820.622	1823.193	1824.862	1828.226	1829.377	1830.528
##	[10825]	1830.144	1828.430	1829.307	1827.977	1826.009	1829.277
##	[10831]	1828.874	1829.771	1830.224	1831.524	1831.071	1833.826
##	[10837]	1834.260	1837.981	1838.758	1840.512	1843.476	1843.930
##	[10843]	1845.683	1846.137	1845.683	1846.580	1846.580	1845.683
##	[10849]	1845.683	1844.806	1844.363	1843.910	1842.156	1840.482
##	[10855]	1841.299	1843.013	1845.977	1849.325	1851.896	1853.226
##	[10861]	1853.226	1852.793	1850.725	1850.302	1848.667	1848.667
##	[10867]	1849.564	1848.264	1846.097	1844.826	1844.393	1842.759
##	[10873]	1839.071	1836.954	1836.501	1837.831	1837.014	1837.467
##	[10879]	1837.467	1835.713	1832.445	1829.550	1823.491	1820.223
##	[10885]	1813.223	1802.746	1793.814	1795.528	1790.505	1787.873
##	[10891]	1783.568	1776.586	1768.277	1763.908	1760.415	1753.042
##	[10897]	1745.370	1738.427	1741.061	1735.119	1727.140	1723.214
##	[10903]	1790.776	1971.232	2023.665	2013.972	2102.246	2286.621
##	[10909]	2401.070	2401.523	2417.877	2415.260	2407.483	2429.686
##	[10915]	2478.852	2472.470	2471.230	2461.654	2455.666	2452.716
##	[10921]	2445.534	2438.781	2437.854	2455.100	2481.291	2501.520
##	[10927]	2498.888	2526.684	2664.078	2776.960	2798.069	2787.515
##	[10933]	2790.026	2781.651	2801.119	2812.845	2810.090	2805.978
##	[10939]	2804.309	2808.802	2801.388	2818.750	2939.998	2973.412
##	[10945]	2973.759	2965.625	2964.069	2961.975	2955.988	2949.941
##	[10951]	3235.188	3438.209	3431.751	3467.888	3569.453	3647.262
##	[10957]	3706.809	3733.881	3774.019	3972.878	3974.616	3970.724
##	[10963]	3985.662	4018.980	4012.107	4323.276	4879.298	5126.728
##	[10969]	5154.674	5144.367	5209.010	5287.232	5396.745	5459.516
##	[10975]	5490.072	5501.812	5495.845	5485.418	5482.026	5473.073
##	[10981]	5474.436	5470.434	5514.690	5607.542	5665.195	5659.136
##	[10987]	5653.796	5650.433	5655.685	5802.859	5944.505	5946.573
##	[10993]	5945.667	5937.373	5952.461	6018.456	6013.164	6006.441
##	[10999]	6076.057	6265.287	6438.477	6600.387	6804.955	7038.159
##	[11005]	7326.093	7370.205	7365.088	7357.867	7650.814	7932.379
##	[11011]	7925.402	8326.643	9382.784	10262.630	10519.722	10512.762
##	[11017]	10503.636	10597.599	10588.926	10627.972	10864.696	11354.838
##	[11023]	11983.460	12423.063	12486.651	12534.234	12973.433	13144.718
##	[11029]	13140.293	13285.722	13720.227	14066.759	14125.410	14118.467
##	[11035]	14264.128	14494.695	14676.481	14797.296	14850.203	14931.474
##	[11041]	14977.818	14974.808	14974.808	14964.254	14954.108	14946.652
##	[11047]	14937.081	15098.538	15253.570	15247.797	15241.921	15275.239
##	[11053]	15302.744	15318.981	15321.960	15313.206	15303.182	15297.088
##	[11059]	15308.828	15395.705	15602.347	15725.508	15719.135	15711.943
##	[11065]	15750.866	15812.481	15827.676	15824.284	15837.116	15869.875
##	[11071]	15918.385	15952.137	15959.564	15955.300	15947.564	15973.359
##	[11077]	16007.649	16013.610	16003.056	15995.205	15986.482	16001.283
##	[11083]	16043.769	16041.456	16064.846	16247.154	16476.926	16485.352
##	[11089]	16477.230	16475.424	16488.507	16489.449	16490.268	16499.383
##	[11095]	16495.436	16490.688	16489.752	16488.645	16489.529	16479.077
##	[11101]	16477.895	16487.093	16517.257	16475.490	16294.086	16232.934
##	[11107]	16243.080	16146.673	15952.152	15828.768	15818.397	15794.373
##	[11113]	15788.618	15787.292	15757.736	15702.893	15706.091	15703.221
##	[11119]	15707.056	15710.891	15710.568	15711.442	15713.207	15712.834
##	[11125]	15695.165	15668.973	15648.322	15649.234	15626.297	15489.306

##	[11131]	15372.537	15348.797	15354.568	15350.582	15359.853	15340.385
##	[11137]	15325.789	15323.237	15324.638	15325.609	15323.447	15331.255
##	[11143]	15314.307	15193.935	15162.490	15163.354	15169.734	15170.513
##	[11149]	15175.058	15182.137	15184.640	14900.664	14698.460	14700.255
##	[11155]	14658.377	14554.480	14477.095	14416.691	14390.436	14348.544
##	[11161]	14146.417	14143.841	14149.004	14133.190	14099.438	14107.985
##	[11167]	13796.383	13241.660	12995.531	12968.442	12978.749	12913.209
##	[11173]	12835.401	12727.158	12663.176	12629.257	12610.087	12614.499
##	[11179]	12619.485	12622.424	12628.806	12627.444	12633.199	12593.163
##	[11185]	12501.168	12442.274	12446.166	12452.383	12454.152	12446.145
##	[11191]	12300.525	12163.996	12164.892	12166.695	12175.442	12161.535
##	[11197]	12097.658	12104.664	12111.386	12040.874	11850.373	11676.740
##	[11203]	11515.283	11309.818	11076.615	10786.927	10741.694	10742.725
##	[11209]	10749.503	10456.959	10176.292	10182.392	9783.318	8723.544
##	[11215]	7841.581	7583.593	7589.371	7595.927	7499.797	7508.470
##	[11221]	7467.750	7228.859	6742.802	6115.933	5678.005	5614.820
##	[11227]	5570.132	5129.752	4958.920	4962.105	4819.068	4384.119
##	[11233]	4038.404	3979.300	3985.790	3840.582	3606.029	3425.120
##	[11239]	3303.035	3247.163	3165.498	3116.987	3118.244	3117.347
##	[11245]	3127.448	3136.697	3142.853	3152.423	2989.213	2834.624
##	[11251]	2840.841	2847.151	2812.562	2785.511	2767.305	2764.326
##	[11257]	2774.834	2783.981	2790.075	2778.335	2689.705	2483.063
##	[11263]	2357.331	2362.463	2368.898	2330.398	2269.177	2252.652
##	[11269]	2255.591	2244.512	2213.920	2166.247	2131.255	2125.461
##	[11275]	2134.714	2144.123	2118.782	2083.161	2079.771	2089.429
##	[11281]	2096.009	2106.032	2093.623	2054.485	2062.404	2039.771
##	[11287]	1866.137	1644.271	1644.324	1650.733	1657.995	1649.512
##	[11293]	1650.190	1655.594	1652.103	1657.908	1664.515	1670.856
##	[11299]	1677.667	1683.726	1691.543	1702.016	1699.616	1670.927
##	[11305]	1641.863	1639.464	1645.850	1644.520	1651.757	1659.332
##	[11311]	1667.833	1677.751	1685.421	1692.463	1701.143	1708.919
##	[11317]	1715.896	1718.687	1720.406	1725.713	1729.077	1730.078
##	[11323]	1735.264	1738.538	1740.292	1742.045	1739.878	1740.302
##	[11329]	1745.743	1745.743	1747.456	1750.910	1756.366	1759.396
##	[11335]	1761.668	1761.214	1762.545	1767.986	1774.170	1778.062
##	[11341]	1782.845	1783.702	1785.819	1785.405	1784.962	1786.716
##	[11347]	1788.469	1788.469	1790.920	1791.817	1794.268	1796.954
##	[11353]	1796.954	1796.541	1799.491	1802.406	1805.595	1806.028
##	[11359]	1806.885	1807.742	1806.531	1808.923	1809.337	1809.780
##	[11365]	1809.780	1810.657	1810.657	1811.987	1810.273	1809.830
##	[11371]	1809.830	1808.076	1808.519	1809.376	1810.273	1813.237
##	[11377]	1818.354	1823.617	1825.172	1826.528	1826.981	1827.798
##	[11383]	1825.227	1822.657	1820.589	1820.589	1821.406	1822.677
##	[11389]	1822.233	1821.859	1825.945	1828.112	1827.659	1827.659
##	[11395]	1827.205	1825.452	1825.865	1826.319	1826.319	1826.319
##	[11401]	1827.215	1826.812	1825.541	1825.088	1825.531	1822.343
##	[11407]	1822.343	1825.098	1828.287	1827.853	1829.567	1829.114
##	[11413]	1829.114	1828.217	1828.955	1828.955	1828.521	1830.972
##	[11419]	1831.376	1830.195	1830.195	1831.012	1832.283	1830.116
##	[11425]	1828.785	1829.682	1831.849	1830.972	1832.567	1830.400
##	[11431]	1832.970	1832.133	1832.133	1833.887	1833.444	1831.730
##	[11437]	1830.400	1832.672	1833.125	1833.125	1835.636	1837.704
##	[11443]	1839.418	1837.823	1834.998	1834.121	1829.577	1831.331
##	[11449]	1830.434	1827.748	1824.854	1822.343	1820.275	1819.872

##	[11455]	1815.786	1817.341	1819.015	1816.444	1816.020	1816.020
##	[11461]	1816.020	1816.444	1814.690	1817.261	1819.378	1823.100
##	[11467]	1823.977	1826.094	1826.094	1825.217	1823.887	1822.991
##	[11473]	1824.321	1825.561	1823.170	1820.659	1818.591	1816.424
##	[11479]	1815.183	1815.183	1816.080	1817.351	1816.050	1817.380
##	[11485]	1817.380	1816.504	1819.015	1819.015	1819.418	1818.541
##	[11491]	1820.708	1820.708	1819.114	1821.800	1823.354	1827.794
##	[11497]	1829.428	1831.062	1833.030	1836.752	1836.752	1838.052
##	[11503]	1838.052	1840.503	1842.955	1846.676	1847.453	1851.086
##	[11509]	1852.416	1851.982	1854.100	1854.976	1853.676	1855.350
##	[11515]	1855.784	1857.537	1858.414	1858.414	1860.048	1862.873
##	[11521]	1862.873	1863.730	1868.169	1872.255	1874.422	1873.525
##	[11527]	1872.628	1874.796	1875.229	1873.899	1873.465	1873.465
##	[11533]	1874.342	1874.786	1875.642	1874.462	1874.018	1873.565
##	[11539]	1873.565	1872.265	1874.432	1873.535	1872.678	1873.131
##	[11545]	1875.299	1875.742	1875.289	1872.718	1871.507	1871.074
##	[11551]	1868.907	1869.803	1871.557	1871.124	1872.837	1874.108
##	[11557]	1876.933	1876.076	1872.533	1871.263	1869.589	1871.657
##	[11563]	1872.090	1872.513	1872.967	1871.333	1870.889	1870.889
##	[11569]	1869.559	1871.273	1870.002	1869.146	1869.569	1867.058
##	[11575]	1865.788	1861.005	1856.565	1853.601	1854.871	1855.285
##	[11581]	1859.370	1856.406	1858.160	1854.975	1848.993	1851.958
##	[11587]	1843.149	1834.756	1831.931	1828.742	1822.633	1812.262
##	[11593]	1802.556	1798.226	1787.754	1778.917	1770.826	1764.671
##	[11599]	1961.042	2532.652	2799.508	2795.743	2810.724	2834.932
##	[11605]	2843.308	2833.916	2828.712	2833.333	2859.165	2885.403
##	[11611]	2925.872	2949.176	2983.920	3046.267	3060.256	3053.050
##	[11617]	3050.837	3044.992	3036.057	3029.118	3030.712	3024.779
##	[11623]	3187.989	3486.649	3685.187	3686.926	3682.445	3792.875
##	[11629]	4091.968	4201.067	4193.791	4402.517	4465.702	4481.793
##	[11635]	4504.644	4615.970	4800.547	4830.679	4825.670	4815.292
##	[11641]	4806.982	4798.688	4797.370	5071.313	5236.118	5231.070
##	[11647]	5222.957	5289.415	5281.256	5279.143	5273.105	5266.075
##	[11653]	5259.208	5258.824	5252.819	5352.315	5563.208	5716.435
##	[11659]	5711.799	5713.553	5709.468	5700.515	5747.129	5851.678
##	[11665]	5917.549	5936.140	5926.869	5962.563	6036.466	6626.089
##	[11671]	7064.450	7094.582	7090.038	7081.690	7082.072	7104.692
##	[11677]	7097.935	7130.591	7399.161	7616.769	7853.493	8058.061
##	[11683]	8259.408	8355.124	8363.047	8353.341	8677.702	9630.528
##	[11689]	10021.979	10050.337	10042.920	10039.956	10051.280	10091.798
##	[11695]	10083.003	10077.711	10143.581	10271.355	10453.141	10537.638
##	[11701]	10528.532	10520.159	10515.457	10504.903	10546.947	10718.675
##	[11707]	13588.876	16950.208	17462.186	17550.460	18794.694	20605.260
##	[11713]	22050.967	22798.655	22985.901	22981.007	22987.737	23017.882
##	[11719]	23009.064	23086.449	23117.038	23108.537	23106.424	23101.307
##	[11725]	23091.244	23125.535	23191.074	23192.379	23182.328	23224.373
##	[11731]	23263.852	23266.062	23265.619	23256.646	23246.667	23238.457
##	[11737]	23237.022	23228.812	23221.806	23231.592	23241.269	23239.888
##	[11743]	23230.470	23221.791	23275.827	23323.240	23313.547	23304.557
##	[11749]	23306.179	23306.929	23300.323	23292.018	23301.804	23314.896
##	[11755]	23305.715	23297.616	23288.041	23284.852	23344.087	23446.861
##	[11761]	23438.797	23460.266	23465.626	23463.952	23456.329	23461.344
##	[11767]	23481.696	23484.447	23480.863	23472.363	23464.264	23458.297
##	[11773]	23596.580	23985.644	24236.547	24241.071	24237.278	24231.346

##	[11779]	24230.962	24231.859	24238.076	24319.462	24407.915	24464.239
##	[11785]	24477.916	24475.914	24469.277	24470.635	24476.342	24475.280
##	[11791]	24473.013	24480.676	24488.084	24495.219	24495.219	24498.016
##	[11797]	24496.757	24497.311	24494.842	24290.337	23713.739	23437.391
##	[11803]	23431.885	23415.388	23389.626	23379.133	23388.081	23397.371
##	[11809]	23386.155	23351.347	23315.534	23265.923	23235.163	23194.519
##	[11815]	23130.931	23109.706	23109.954	23105.805	23112.981	23121.058
##	[11821]	23124.723	23117.730	23115.010	22944.447	22639.010	22440.068
##	[11827]	22437.089	22439.402	22327.642	22029.426	21918.732	21922.735
##	[11833]	21707.655	21643.290	21628.095	21604.348	21490.954	21306.790
##	[11839]	21275.024	21277.083	21286.132	21296.608	21303.188	21302.439
##	[11845]	21025.985	20863.631	20871.504	20880.494	20819.477	20827.636
##	[11851]	20829.749	20838.472	20845.503	20853.580	20853.580	20862.156
##	[11857]	20764.992	20554.936	20399.258	20403.116	20398.333	20400.251
##	[11863]	20407.874	20361.260	20257.134	20189.510	20169.205	20178.476
##	[11869]	20141.482	20066.279	19475.415	19034.662	19003.693	19007.381
##	[11875]	19015.728	19014.509	18995.611	19004.435	18974.290	18705.721
##	[11881]	18489.786	18250.492	18043.757	17841.140	17745.010	17735.757
##	[11887]	17744.133	17420.205	16467.832	16076.382	16046.843	16055.590
##	[11893]	16058.554	16047.673	16010.503	16020.599	16025.891	15956.672
##	[11899]	15828.062	15645.852	15561.355	15567.113	15574.156	15577.981
##	[11905]	15588.535	15546.935	15376.103	12504.572	9145.811	8632.956
##	[11911]	8542.928	7298.271	5483.719	4036.711	3290.324	3102.644
##	[11917]	3107.982	3101.252	3068.990	3077.808	2998.405	2966.142
##	[11923]	2973.806	2975.062	2980.179	2988.488	2952.867	2883.442
##	[11929]	2880.866	2889.587	2845.475	2807.326	2805.549	2805.115
##	[11935]	2814.088	2824.521	2832.731	2835.760	2844.413	2851.419
##	[11941]	2841.633	2833.257	2832.884	2841.445	2851.878	2797.842
##	[11947]	2749.976	2759.668	2768.215	2768.710	2770.925	2778.861
##	[11953]	2788.436	2778.650	2765.558	2774.315	2781.114	2790.257
##	[11959]	2793.445	2735.067	2634.979	2644.313	2625.415	2618.381
##	[11965]	2620.951	2626.556	2620.644	2601.090	2598.783	2603.263
##	[11971]	2612.197	2618.179	2622.590	2482.713	2089.863	1837.838
##	[11977]	1832.134	1839.813	1850.184	1852.202	1848.854	1844.391
##	[11983]	1763.005	1675.348	1619.025	1611.103	1619.086	1625.724
##	[11989]	1634.071	1635.940	1640.270	1646.623	1646.623	1647.834
##	[11995]	1645.287	1645.985	1649.220	1656.049	1664.008	1671.816
##	[12001]	1676.985	1681.973	1690.589	1699.860	1702.192	1704.583
##	[12007]	1707.154	1707.598	1705.844	1711.228	1719.780	1726.531
##	[12013]	1733.655	1738.600	1740.514	1740.514	1748.194	1756.333
##	[12019]	1765.265	1764.368	1766.122	1768.599	1775.592	1780.613
##	[12025]	1785.634	1790.345	1792.462	1794.136	1796.303	1795.879
##	[12031]	1795.003	1797.454	1802.895	1809.248	1812.143	1809.572
##	[12037]	1809.572	1810.783	1809.966	1809.966	1814.629	1815.960
##	[12043]	1814.206	1816.373	1818.884	1820.952	1820.095	1820.095
##	[12049]	1820.095	1820.095	1817.928	1816.254	1815.043	1815.043
##	[12055]	1812.711	1816.059	1815.162	1816.463	1817.793	1819.811
##	[12061]	1821.828	1826.612	1826.612	1826.188	1824.170	1825.500
##	[12067]	1826.357	1828.071	1825.904	1827.658	1827.658	1829.332
##	[12073]	1832.157	1833.427	1833.427	1831.673	1831.270	1827.548
##	[12079]	1825.874	1825.874	1827.588	1827.588	1830.159	1830.159
##	[12085]	1830.572	1829.391	1828.151	1828.151	1829.047	1828.151
##	[12091]	1829.047	1832.395	1831.499	1831.045	1830.169	1829.715
##	[12097]	1829.272	1830.109	1832.560	1833.830	1835.584	1837.338



##	[12103]	1840.686	1839.849	1840.725	1839.395	1839.395	1838.942
##	[12109]	1840.272	1838.942	1840.272	1842.026	1842.449	1845.558
##	[12115]	1846.415	1846.868	1846.868	1845.155	1842.584	1842.190
##	[12121]	1841.747	1843.765	1844.582	1844.178	1843.765	1840.801
##	[12127]	1838.115	1837.278	1840.731	1841.568	1842.898	1845.862
##	[12133]	1845.862	1841.642	1840.805	1840.805	1837.841	1836.167
##	[12139]	1832.803	1828.817	1827.941	1826.187	1823.676	1822.465
##	[12145]	1822.052	1821.155	1821.155	1821.155	1820.278	1820.722
##	[12151]	1820.278	1820.278	1820.278	1820.722	1816.636	1814.066
##	[12157]	1813.248	1813.672	1812.038	1812.934	1812.501	1812.501
##	[12163]	1813.398	1812.944	1814.618	1812.865	1815.316	1816.213
##	[12169]	1817.050	1816.606	1814.853	1811.664	1812.905	1814.873
##	[12175]	1815.650	1817.803	1821.888	1824.339	1824.339	1823.443
##	[12181]	1824.773	1826.367	1825.471	1825.471	1823.916	1821.345
##	[12187]	1819.178	1818.785	1814.345	1812.592	1814.266	1812.148
##	[12193]	1809.578	1809.991	1808.781	1809.114	1808.417	1809.892
##	[12199]	1811.446	1812.776	1814.894	1816.528	1816.981	1818.311
##	[12205]	1817.858	1818.282	1819.612	1819.158	1818.715	1820.015
##	[12211]	1822.526	1822.113	1822.870	1821.101	1823.612	1825.884
##	[12217]	1828.001	1827.558	1829.272	1829.272	1828.838	1828.838
##	[12223]	1830.906	1830.089	1833.721	1836.053	1838.564	1839.017
##	[12229]	1839.017	1836.850	1838.150	1838.584	1839.027	1838.574
##	[12235]	1837.677	1837.234	1839.351	1839.794	1841.095	1843.212
##	[12241]	1844.846	1845.300	1845.300	1844.089	1840.003	1840.003
##	[12247]	1840.900	1841.324	1840.467	1839.590	1838.260	1839.974
##	[12253]	1840.377	1843.341	1846.689	1850.775	1848.204	1847.771
##	[12259]	1846.894	1842.809	1839.355	1835.569	1831.483	1827.013
##	[12265]	1827.436	1820.826	1812.890	1803.956	1798.350	1790.361
##	[12271]	1781.591	1773.758	1765.211	1755.951	1746.607	1738.530
##	[12277]	1739.830	1739.783	1753.933	1746.916	1739.695	1740.557
##	[12283]	1755.236	1748.599	1875.563	2022.525	2019.779	2011.872
##	[12289]	2009.810	1999.579	1990.645	1983.215	1977.774	1971.495
##	[12295]	1963.179	1964.455	1960.428	1950.776	1948.758	1949.202
##	[12301]	1941.965	1931.914	1927.829	1917.457	1914.183	1904.691
##	[12307]	1913.943	1934.066	1967.870	1986.768	1978.377	1967.870
##	[12313]	1966.973	1962.862	1974.620	2092.232	2322.345	2448.473
##	[12319]	2590.611	2806.106	2877.427	2868.753	2916.426	3236.078
##	[12325]	3678.670	4373.426	5892.458	6367.360	6390.767	6388.705
##	[12331]	6408.173	6546.418	6744.824	6822.197	6873.658	6932.148
##	[12337]	6933.482	6929.809	6922.073	6916.654	6946.435	7000.672
##	[12343]	7064.642	7176.489	7269.134	7296.643	7306.074	7297.940
##	[12349]	7526.323	7822.944	7911.672	7919.889	7936.536	7986.116
##	[12355]	8081.980	8256.897	8377.780	8370.288	8364.442	8356.871
##	[12361]	8382.212	8534.077	8882.453	9281.528	9633.956	9783.601
##	[12367]	9778.968	9781.719	10172.273	10522.896	10520.401	10544.195
##	[12373]	10579.782	10571.668	10588.616	10595.109	10650.980	10669.879
##	[12379]	10667.811	10694.899	10800.098	10802.454	10794.637	10788.358
##	[12385]	10788.304	10785.932	10788.049	10782.057	10979.369	11910.095
##	[12391]	12370.015	12377.642	12406.404	12704.266	12974.774	13013.939
##	[12397]	13010.786	13042.621	13277.892	13507.989	13498.268	13492.334
##	[12403]	13487.605	13487.099	13522.340	13575.700	13606.722	13601.244
##	[12409]	13601.697	13652.174	13723.511	13714.243	13708.501	13701.151
##	[12415]	13714.191	13720.792	13714.384	13705.006	13697.156	13688.483
##	[12421]	13688.891	13710.670	13875.847	14275.818	14654.940	14786.835

##	[12427]	14778.758	14802.882	14941.128	15101.636	15265.259	15485.008
##	[12433]	15684.310	15770.253	15832.922	15850.465	15855.825	15845.964
##	[12439]	15836.366	15834.652	15825.400	15816.197	15816.605	16137.065
##	[12445]	16690.950	16936.216	17521.515	18049.281	18182.052	18175.458
##	[12451]	18231.963	18485.789	18804.140	19096.683	19301.251	19414.804
##	[12457]	19460.088	19452.109	19446.233	19540.089	19696.505	19708.017
##	[12463]	19703.691	19778.660	19879.260	19873.131	19873.519	19904.305
##	[12469]	19973.965	20035.199	20040.916	20060.113	20147.073	20200.752
##	[12475]	20225.393	20244.788	20253.239	20243.184	20237.055	20225.297
##	[12481]	20233.131	20236.366	20225.408	20205.531	20205.781	20070.448
##	[12487]	19915.796	19912.046	19913.251	19909.732	19911.032	19915.107
##	[12493]	19919.573	19925.014	19928.842	19936.715	19934.198	19938.225
##	[12499]	19942.136	19938.054	19931.077	19932.299	19936.290	19935.937
##	[12505]	19941.525	19946.069	19955.119	19943.111	19916.266	19873.808
##	[12511]	19847.235	19851.201	19859.138	19857.071	19860.345	19849.020
##	[12517]	19731.408	19500.398	19375.601	19234.733	19019.239	18949.985
##	[12523]	18956.985	18909.745	18591.394	18148.408	17454.065	15937.101
##	[12529]	15466.184	15442.777	15444.416	15422.193	15279.165	15076.674
##	[12535]	14999.300	14951.203	14893.550	14891.339	14896.223	14902.808
##	[12541]	14912.890	14886.219	14833.311	14771.095	14661.760	14571.625
##	[12547]	14545.830	14537.296	14544.100	14314.840	14014.432	13921.375
##	[12553]	13907.994	13889.181	13835.161	13736.029	13563.030	13443.388
##	[12559]	13453.451	13458.459	13466.424	13440.630	13289.642	12940.448
##	[12565]	12540.477	12188.503	12038.000	12041.039	12037.855	11645.971
##	[12571]	11296.224	11299.163	11273.037	11236.753	11241.079	11224.988
##	[12577]	11219.736	11165.499	11144.847	11146.481	11119.836	11013.780
##	[12583]	11009.257	11017.497	11024.673	11022.973	11028.614	11029.068
##	[12589]	11033.879	10835.810	9907.769	9448.272	9438.578	9411.933
##	[12595]	9114.889	8844.804	8805.639	8811.004	8779.513	8542.767
##	[12601]	8311.873	8319.841	8325.331	8330.494	8330.546	8294.409
##	[12607]	8241.502	8210.913	8214.225	8211.260	8160.350	8087.713
##	[12613]	8096.104	8104.013	8112.997	8103.744	8096.266	8103.512
##	[12619]	8111.589	8116.614	8124.844	8123.105	8099.308	7931.167
##	[12625]	7530.339	7153.788	7022.346	7032.177	7007.609	6868.467
##	[12631]	6708.403	6546.946	6325.080	6123.710	6037.768	5975.099
##	[12637]	5957.999	5951.782	5961.200	5970.797	5972.511	5981.320
##	[12643]	5989.283	5986.304	5664.948	5112.273	4869.763	4281.195
##	[12649]	3751.262	3617.653	3623.037	3566.532	3314.037	2996.139
##	[12655]	2704.432	2499.864	2384.145	2336.693	2343.895	2351.101
##	[12661]	2258.575	2103.674	2093.980	2103.424	2031.210	1937.247
##	[12667]	1944.253	1953.824	1930.520	1869.361	1813.290	1813.290
##	[12673]	1797.745	1717.024	1671.035	1655.655	1644.746	1646.126
##	[12679]	1654.063	1660.240	1661.116	1661.540	1663.015	1670.994
##	[12685]	1677.088	1682.145	1692.681	1702.124	1710.639	1715.825
##	[12691]	1716.383	1722.744	1725.535	1728.499	1725.535	1728.883
##	[12697]	1729.326	1731.897	1732.350	1738.534	1745.965	1752.065
##	[12703]	1757.223	1761.115	1765.101	1769.430	1767.756	1766.486
##	[12709]	1770.118	1775.127	1783.337	1791.011	1796.766	1798.440
##	[12715]	1798.834	1797.653	1797.653	1798.096	1797.663	1795.909
##	[12721]	1793.458	1792.307	1791.874	1794.444	1794.011	1794.011
##	[12727]	1796.078	1795.261	1795.705	1794.828	1795.242	1796.995
##	[12733]	1800.184	1800.528	1803.283	1802.830	1802.013	1802.889
##	[12739]	1803.766	1805.520	1808.345	1807.468	1808.798	1808.798
##	[12745]	1808.345	1808.798	1807.921	1805.804	1804.050	1804.050

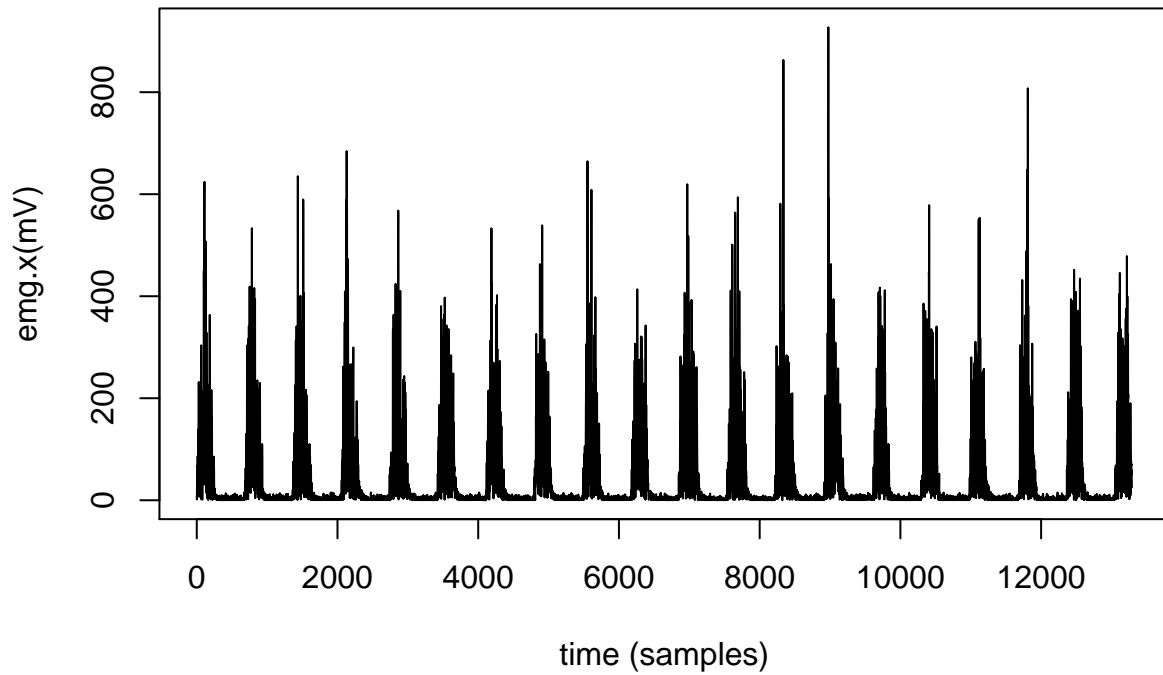
##	[12751]	1805.380	1810.498	1813.527	1819.586	1819.586	1821.455
##	[12757]	1822.606	1821.809	1821.809	1821.355	1822.192	1819.980
##	[12763]	1819.980	1819.103	1819.507	1820.403	1820.403	1819.586
##	[12769]	1821.604	1821.181	1821.181	1821.634	1821.190	1823.946
##	[12775]	1828.729	1833.846	1834.743	1834.743	1836.073	1836.496
##	[12781]	1836.073	1836.526	1837.383	1838.220	1839.097	1838.200
##	[12787]	1838.200	1838.653	1837.757	1841.105	1843.930	1845.683
##	[12793]	1846.560	1847.771	1846.894	1845.300	1845.733	1846.944
##	[12799]	1845.075	1845.429	1846.520	1847.731	1848.588	1848.154
##	[12805]	1848.598	1848.154	1846.884	1842.799	1842.799	1843.636
##	[12811]	1846.600	1846.600	1846.600	1845.763	1845.763	1844.926
##	[12817]	1845.359	1845.793	1847.123	1846.709	1850.431	1849.998
##	[12823]	1849.574	1852.922	1854.990	1856.743	1854.990	1854.990
##	[12829]	1854.990	1855.886	1855.029	1854.153	1851.986	1852.803
##	[12835]	1855.767	1854.890	1851.622	1849.908	1849.908	1847.083
##	[12841]	1847.083	1844.188	1841.737	1841.737	1840.960	1840.103
##	[12847]	1840.960	1841.393	1845.115	1846.385	1848.552	1848.946
##	[12853]	1846.554	1846.554	1846.554	1847.431	1846.978	1848.692
##	[12859]	1848.288	1850.739	1847.391	1846.495	1848.612	1851.576
##	[12865]	1851.123	1852.453	1849.883	1847.765	1845.195	1842.300
##	[12871]	1842.733	1843.177	1847.616	1852.733	1854.751	1855.174
##	[12877]	1853.904	1852.693	1852.693	1854.811	1856.051	1856.504
##	[12883]	1856.938	1859.902	1862.473	1862.019	1863.350	1861.182
##	[12889]	1861.182	1859.942	1863.574	1869.927	1872.498	1875.462
##	[12895]	1874.132	1876.643	1876.190	1876.643	1876.190	1875.293
##	[12901]	1875.746	1875.746	1876.180	1877.037	1879.204	1877.490
##	[12907]	1877.490	1877.894	1880.061	1880.061	1881.774	1882.218
##	[12913]	1881.321	1881.321	1880.888	1882.562	1885.910	1885.053
##	[12919]	1885.506	1885.506	1887.260	1890.154	1893.423	1893.856
##	[12925]	1892.102	1893.433	1893.433	1893.876	1895.993	1896.447
##	[12931]	1893.337	1895.091	1894.638	1894.204	1896.890	1896.467
##	[12937]	1896.023	1897.697	1898.150	1897.707	1897.707	1898.150
##	[12943]	1898.150	1895.983	1895.087	1893.373	1890.025	1887.270
##	[12949]	1882.664	1882.251	1878.464	1872.709	1867.926	1864.238
##	[12955]	1854.795	1847.518	1839.943	1842.514	1837.130	1828.081
##	[12961]	1823.056	1813.851	1808.803	1798.784	1789.969	1782.085
##	[12967]	1772.814	1771.483	1764.628	1756.387	1755.176	1752.421
##	[12973]	1743.489	1743.933	1740.824	1737.059	1755.196	1881.640
##	[12979]	2014.412	2144.177	2145.001	2140.696	2131.425	2127.204
##	[12985]	2119.765	2174.254	2287.137	2423.714	2490.823	2483.347
##	[12991]	2482.894	2483.791	2483.737	2540.514	2590.759	2609.476
##	[12997]	2613.232	2606.670	2788.879	3142.612	3236.379	3230.455
##	[13003]	3234.063	3248.743	3250.953	3244.769	3235.189	3226.808
##	[13009]	3223.981	3223.075	3248.907	3265.553	3257.177	3455.302
##	[13015]	4494.811	5210.024	5231.860	5325.283	5716.733	5927.553
##	[13021]	5922.777	5913.333	5915.072	5909.151	5898.718	5891.456
##	[13027]	5880.948	5884.556	5874.725	6379.824	6677.587	6676.770
##	[13033]	6801.261	7086.508	7237.011	7281.246	7312.268	7338.030
##	[13039]	7339.249	7335.885	7329.099	7329.553	7332.847	7358.235
##	[13045]	7355.014	7359.725	7386.820	7383.995	7374.933	7369.777
##	[13051]	7430.503	7486.826	7735.073	7935.166	7925.104	7972.516
##	[13057]	8081.852	8126.541	8119.788	8112.202	8164.887	8160.561
##	[13063]	8256.868	8487.434	8577.116	8582.584	8572.521	8569.337
##	[13069]	8565.554	8557.590	8663.733	9049.553	9215.183	9214.729

```
## [13075] 9246.231 9299.349 9336.880 9328.513 9321.247 9379.897
## [13081] 9378.970 9369.750 9400.342 9393.080 9390.115 9379.561
## [13087] 9377.397 9370.727 9391.792 9749.159 9938.079 9929.089
## [13093] 10003.836 10263.240 10539.113 10811.561 10990.525 10989.176
## [13099] 10978.704 10993.641 11050.861 11464.335 12318.657 13112.765
## [13105] 13282.598 13274.250 13341.060 13444.309 13516.091 13516.500
## [13111] 13508.021 13504.753 13495.619 13522.707 13634.693 13836.473
## [13117] 13941.672 13979.821 14629.992 15419.209 15948.305 16180.612
## [13123] 16342.521 16333.016 16381.325 16671.014 16747.069 16841.485
## [13129] 17115.429 17598.801 18044.831 18185.799 18177.247 18175.485
## [13135] 18201.317 18255.977 18292.971 18413.786 18493.384 18486.208
## [13141] 18498.845 18537.983 18548.864 18546.802 18541.267 18532.333
## [13147] 18528.745 18530.763 18530.409 18532.144 18524.004 18519.277
## [13153] 18518.361 18514.375 18509.510 18511.778 18511.650 18521.743
## [13159] 18554.164 18597.752 18616.054 18611.701 18618.515 18622.554
## [13165] 18725.553 18834.033 18841.467 18843.063 18836.691 18845.169
## [13171] 18853.359 18854.109 18871.286 18899.116 18900.450 18895.302
## [13177] 18889.496 18863.928 18731.132 18592.778 18456.375 18452.796
## [13183] 18458.402 18465.506 18467.275 18472.322 18413.503 18296.400
## [13189] 18155.822 18082.654 18084.115 NA NA NA
## [13195] NA NA NA NA NA NA
## [13201] NA NA NA NA NA NA
## [13207] NA NA NA NA NA NA
## [13213] NA NA NA NA NA NA
## [13219] NA NA NA NA NA NA
## [13225] NA NA NA NA NA NA
## [13231] NA NA NA NA NA NA
## [13237] NA NA NA NA NA NA
## [13243] NA NA NA NA NA NA
## [13249] NA NA NA NA NA NA
## [13255] NA NA NA NA NA NA
## [13261] NA NA NA NA NA NA
## [13267] NA NA NA NA NA NA
## [13273] NA NA NA NA NA NA
## [13279] NA NA NA NA NA NA
## [13285] NA NA NA NA NA NA
## [13291] NA
```

```
### Active or passive phase
```

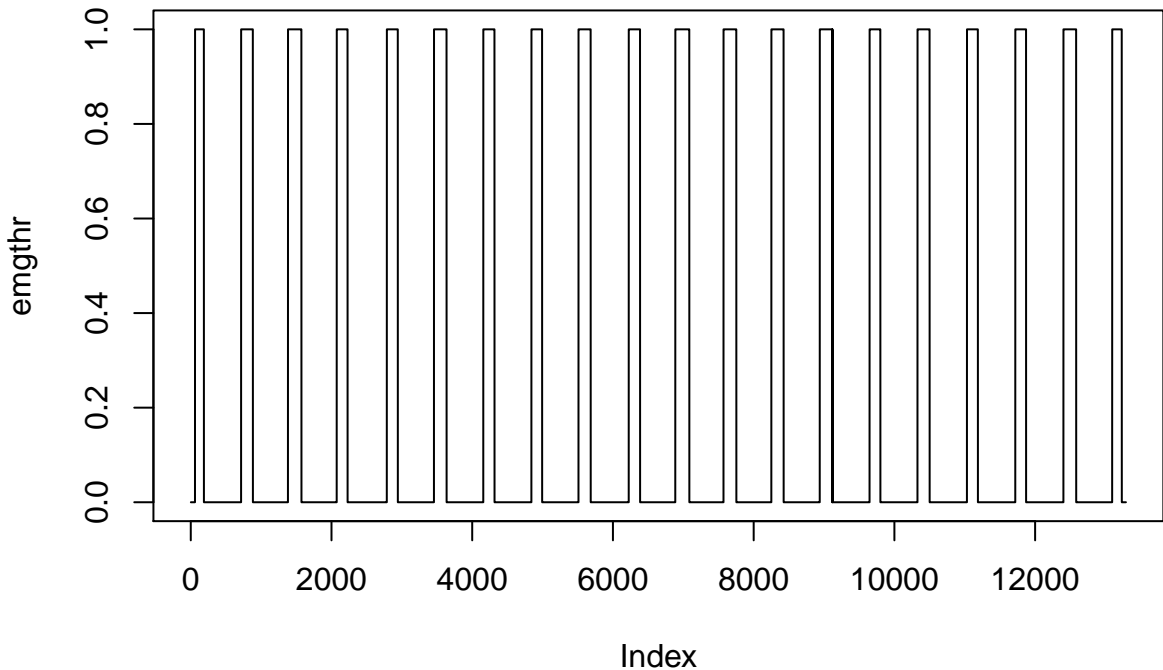
```
emgthr <- onoff_singlethres(emghpass, t = 90, data.name = "RMS")
plot(emghpass, main = "High pass filter with rectification")
```

## High pass filter with rectification



```
plot(emgthr, type = "l", main = "Detected phases (single thresholding)")
```

### Detected phases (single thresholding)



emgthr # detecting active/passive phases

[illegible]

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

[illegible]

```

## [11833] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## [11867] 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [11901] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [11935] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [11969] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [12003] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [12037] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [12071] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [12105] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [12139] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [12173] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [12207] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [12241] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [12275] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [12309] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [12343] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [12377] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
## [12411] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## [12445] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## [12479] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## [12513] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## [12547] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## [12581] 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [12615] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [12649] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [12683] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [12717] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [12751] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [12785] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [12819] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [12853] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [12887] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [12921] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [12955] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [12989] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [13023] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [13057] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [13091] 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## [13125] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## [13159] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## [13193] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## [13227] 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [13261] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

```

```

# Ensemble-averaged EMG

```

```

avgemg <- eaemg(emghpass, runs = emgthr, what = 1, timenormalization = "mean", scalem = 1, empirical = 1)
avgemg

```

```

## Envelope averaged EMG
## 95 % empirical prediction intervals
## 158 group points
##
## Prediction intervals:
##      Lower      Mean      Upper
## [1,] 6.106880107 90.58268 238.9241

```

```

## [2,] 13.926177463 99.47608 243.6113
## [3,] 1.659696128 86.39521 256.9627
## [4,] 1.483256549 88.87160 232.8632
## [5,] 2.914383258 84.10300 229.9972
## [6,] 6.398685051 75.34929 190.6944
## [7,] 6.324875416 90.03594 210.9532
## [8,] 2.713227375 54.37735 171.8713
## [9,] 1.123051114 72.75655 190.7829
## [10,] 4.245077917 57.06101 173.3718
## [11,] 3.775799733 54.98479 220.5743
## [12,] 1.806661963 65.17026 207.4548
## [13,] 2.849022786 61.19037 194.2275
## [14,] 3.566585262 48.09132 153.6979
## [15,] 3.187420166 50.99256 271.0359
## [16,] 2.264259919 59.05706 220.5799
## [17,] 1.809579133 50.22583 303.8212
## [18,] 5.523647540 58.16260 291.7704
## [19,] 6.717669387 43.84121 256.7974
## [20,] 5.840960764 40.50258 229.2151
## [21,] 0.759939388 37.96469 240.6321
## [22,] 1.293603289 51.20126 285.1064
## [23,] 1.164054957 43.16216 304.6067
## [24,] 1.573384467 35.00952 241.5884
## [25,] 1.031139351 30.19468 202.7815
## [26,] 1.255968309 29.94600 191.0879
## [27,] 0.222606941 34.00442 214.1579
## [28,] 0.678832499 35.96394 210.4572
## [29,] 1.652330729 45.96860 336.7136
## [30,] 0.277807307 51.05998 340.3654
## [31,] 0.232289378 48.23084 321.5568
## [32,] 0.129924037 38.72449 189.8734
## [33,] 0.269489881 33.81102 308.5971
## [34,] 0.174483432 38.79567 223.9920
## [35,] 0.135522585 53.57819 406.0080
## [36,] 0.407934321 61.82103 424.8032
## [37,] 0.156247084 51.56711 324.6945
## [38,] 0.247677000 56.45808 323.3090
## [39,] 0.301209361 57.60523 424.2711
## [40,] 0.155994416 46.91455 416.4036
## [41,] 0.299020697 40.18135 240.3886
## [42,] 1.380658725 33.40895 169.9861
## [43,] 0.467521251 36.86772 266.5205
## [44,] 0.121205858 49.51492 224.2420
## [45,] 0.367919524 41.71603 264.1722
## [46,] 0.275238253 42.11053 256.3092
## [47,] 0.508050522 37.77112 277.3721
## [48,] 1.318728421 32.12213 225.9944
## [49,] 0.153407414 35.66054 219.1535
## [50,] 0.070200544 23.71413 168.3639
## [51,] 0.107630404 43.70482 336.2487
## [52,] 0.144781244 41.26887 308.9773
## [53,] 0.255133372 59.36401 302.9472
## [54,] 0.430782987 60.49733 305.2817
## [55,] 0.103863131 36.64159 296.8615

```

```

## [56,] 0.165071092 26.15484 129.2027
## [57,] 0.198823334 42.95254 354.8148
## [58,] 0.113492489 47.05239 392.2933
## [59,] 0.400149074 43.30229 293.3826
## [60,] 0.531224870 31.76995 253.0022
## [61,] 0.352935594 62.12553 378.3837
## [62,] 0.238263237 61.13832 339.5570
## [63,] 0.128030331 54.51904 431.2208
## [64,] 0.409544373 62.61700 451.5133
## [65,] 0.345757446 42.35491 367.3741
## [66,] 0.028704419 45.80825 288.6989
## [67,] 0.299018003 45.99635 286.5722
## [68,] 0.495274122 43.19800 239.6256
## [69,] 0.164456275 42.67260 313.2203
## [70,] 0.952882710 44.96662 330.1615
## [71,] 0.175064389 56.67677 373.9138
## [72,] 0.124043916 48.21754 288.4685
## [73,] 0.085464187 43.66557 263.5328
## [74,] 0.481895462 50.70344 338.3594
## [75,] 0.222279908 41.48594 295.7447
## [76,] 0.066935390 48.90666 381.8229
## [77,] 0.191819004 63.46314 390.2005
## [78,] 0.599783504 40.24954 282.8175
## [79,] 0.136043299 18.20077 146.4036
## [80,] 0.199266228 40.51058 245.4519
## [81,] 0.123274940 32.81822 230.6214
## [82,] 0.118656912 37.57860 265.6503
## [83,] 0.447582990 49.07716 333.6306
## [84,] 0.007037832 25.25310 238.3163
## [85,] 0.709077778 46.40094 349.2837
## [86,] 0.175205129 52.90810 306.4535
## [87,] 0.248201175 44.34908 289.1277
## [88,] 0.228846697 37.13733 232.5843
## [89,] 0.216257719 41.20601 265.6872
## [90,] 0.416761466 51.69221 213.2958
## [91,] 0.459956858 48.62924 281.9871
## [92,] 0.204506500 32.88610 204.4024
## [93,] 0.399328324 38.29275 195.2253
## [94,] 0.229751999 36.80196 247.1141
## [95,] 0.129405944 42.40506 241.6528
## [96,] 0.046078006 47.48115 369.5719
## [97,] 0.603450394 58.39895 326.3218
## [98,] 0.013209853 54.13252 337.8602
## [99,] 0.355050586 32.24488 331.1366
## [100,] 0.244935904 29.79331 233.2371
## [101,] 0.608513088 41.11099 288.1862
## [102,] 0.298293794 31.78437 234.1784
## [103,] 0.397459859 29.54441 215.0921
## [104,] 0.492817274 23.83485 152.3248
## [105,] 0.206924250 26.60612 211.7526
## [106,] 0.075056168 63.25017 328.4160
## [107,] 0.588458148 45.75532 340.7459
## [108,] 0.128775914 49.96804 369.9541
## [109,] 0.103416708 45.14413 400.3916

```

```

## [110,] 0.376935705 39.16409 291.5039
## [111,] 0.060881992 34.12565 181.2777
## [112,] 0.325096549 26.25529 171.0065
## [113,] 0.376836319 33.75941 226.9898
## [114,] 0.462762512 27.12883 154.6013
## [115,] 0.228251494 32.01620 217.9714
## [116,] 0.314527152 36.76557 195.3928
## [117,] 0.479394242 30.12072 163.2792
## [118,] 0.326516224 27.21948 173.3934
## [119,] 0.248240045 25.32488 146.4111
## [120,] 0.320858629 32.95993 225.8985
## [121,] 0.494815838 37.97482 223.3570
## [122,] 0.350141499 31.16682 203.8018
## [123,] 0.345166937 23.79215 170.1632
## [124,] 0.242252251 24.66680 171.0219
## [125,] 0.198867463 32.62520 178.3128
## [126,] 0.653799973 32.61627 177.1724
## [127,] 0.288436641 31.23155 258.0855
## [128,] 0.095098809 26.02499 165.3945
## [129,] 0.225860171 19.10980 181.7119
## [130,] 0.182304869 21.11162 193.3092
## [131,] 0.178012525 22.55032 150.8946
## [132,] 0.069802667 18.03731 130.9576
## [133,] 0.341786758 17.80403 142.3648
## [134,] 0.113883702 21.30227 181.3331
## [135,] 0.325046899 28.32326 212.3486
## [136,] 0.322002964 35.01830 182.4949
## [137,] 0.165983232 37.51480 226.1733
## [138,] 0.664066158 31.69632 228.9047
## [139,] 0.473194529 40.00611 216.7116
## [140,] 0.071887273 33.77281 247.1409
## [141,] 0.129371979 40.55088 194.5368
## [142,] 0.279769404 29.54748 186.8777
## [143,] 0.036152702 24.46911 136.6576
## [144,] 0.065045894 26.34522 208.2831
## [145,] 0.322235923 31.84369 161.8566
## [146,] 0.579948852 35.43403 183.1885
## [147,] 0.141092304 36.55894 172.3210
## [148,] 0.086675212 32.87043 146.0929
## [149,] 0.475507760 48.53903 234.9942
## [150,] 1.905279044 45.96799 244.2875
## [151,] 0.984781090 63.21556 225.9254
## [152,] 1.239127306 78.06074 263.3791
## [153,] 1.729195624 89.74318 319.3053
## [154,] 4.329421759 69.71725 184.3402
## [155,] 6.372781848 87.98876 278.3002
## [156,] 2.428804552 75.26619 227.7180
## [157,] 3.392582717 65.89663 173.9083
## [158,] 6.721138511 92.91827 277.5691

```

```

plot(avgemg, lwd = 1.5, main = "Ensemble-averaged EMG")

```



## Ensemble-averaged EMG

