

Data Science II Midterm Project Analysis

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```
library(tidymodels)
library(splines)
library(caret)
library(table1)
library(kableExtra)
```

Partition the dataset into two parts: training data (80%) and test data (20%) with `tidymodels`.

```
load("data/recovery.RData")
```

```
dat |>
  drop_na()
```

##	id	age	gender	race	smoking	height	weight	bmi	hypertension	diabetes	SBP
## 1	1	56	0	1	2	170.2	78.7	27.2	0	0	120
## 2	2	70	1	1	1	169.6	73.1	25.4	1	0	134
## 3	3	57	1	1	0	168.4	77.4	27.3	1	0	131
## 4	4	53	0	1	0	166.7	76.1	27.4	0	0	115
## 5	5	59	1	1	2	173.6	70.2	23.3	0	0	127
## 6	6	60	1	3	1	162.8	75.1	28.4	0	0	129
## 7	7	56	0	1	0	169.6	79.1	27.5	0	1	122
## 8	8	58	1	1	0	152.8	62.6	26.8	1	0	134
## 9	9	60	0	1	1	168.5	81.8	28.8	1	0	136
## 10	10	60	1	1	0	166.6	75.7	27.3	0	0	127
## 11	11	53	1	1	0	171.0	75.0	25.7	0	1	117
## 12	12	66	0	1	2	184.9	68.5	20.0	1	0	135
## 13	13	59	1	1	0	180.3	75.2	23.1	1	0	133
## 14	14	61	0	1	0	173.5	87.7	29.1	0	0	127
## 15	15	67	0	3	0	172.7	72.5	24.3	1	0	138
## 16	16	61	1	1	0	165.4	78.7	28.8	0	0	127
## 17	17	63	1	2	1	165.6	100.0	36.4	1	0	140
## 18	18	61	0	1	0	170.7	87.1	29.9	1	0	136
## 19	19	59	0	1	0	175.8	84.7	27.4	0	1	125
## 20	20	61	0	1	0	166.4	80.1	28.9	1	0	135
## 21	21	55	1	1	2	166.7	80.4	28.9	1	0	132
## 22	22	66	0	1	1	165.4	70.2	25.7	1	0	131
## 23	23	62	1	1	0	176.6	80.5	25.8	0	0	128
## 24	24	62	0	2	1	164.1	78.5	29.2	0	0	128
## 25	25	62	0	2	1	169.7	72.9	25.3	0	0	123
## 26	26	59	0	3	2	158.2	74.6	29.8	0	0	128
## 27	27	66	0	3	0	172.0	80.4	27.2	1	1	145
## 28	28	60	0	1	0	174.8	89.2	29.2	0	0	127
## 29	29	55	1	1	0	168.9	77.9	27.3	1	0	133
## 30	30	57	0	1	0	180.1	87.7	27.0	1	1	131
## 31	31	67	0	3	1	169.4	80.7	28.1	1	0	141
## 32	32	59	0	1	0	171.4	77.5	26.4	1	0	133
## 33	33	65	1	1	1	172.6	84.8	28.5	0	0	126
## 34	34	53	1	1	1	173.2	79.2	26.4	0	0	129
## 35	35	63	0	1	0	176.7	93.4	29.9	1	1	135
## 36	36	62	1	1	0	165.1	79.8	29.3	0	0	124
## 37	37	60	1	1	1	169.3	92.4	32.2	1	0	135
## 38	38	55	0	1	0	178.5	83.4	26.2	0	1	129
## 39	39	61	1	1	0	175.5	82.9	26.9	1	1	131
## 40	40	61	0	1	1	161.0	66.5	25.7	1	0	138

## 41	41	56	1	1	0	162.4	85.2	32.3	1	0	134
## 42	42	60	0	1	0	164.0	70.1	26.1	1	0	131
## 43	43	61	0	3	0	164.3	74.4	27.5	0	0	129
## 44	44	58	0	1	0	170.0	83.9	29.0	1	0	141
## 45	45	57	1	1	2	171.9	81.7	27.6	0	0	125
## 46	46	60	1	4	0	168.5	75.0	26.4	0	0	129
## 47	47	69	1	1	0	161.0	71.2	27.4	1	0	145
## 48	48	64	0	1	1	176.0	88.4	28.6	1	0	133
## 49	49	58	0	1	0	167.5	68.6	24.4	0	0	125
## 50	50	57	1	1	1	170.9	72.6	24.9	0	0	117
## 51	51	65	0	1	0	168.2	77.6	27.4	1	0	133
## 52	52	57	0	1	0	164.4	70.8	26.2	1	0	132
## 53	53	62	1	4	1	173.8	84.0	27.8	1	0	134
## 54	54	64	1	4	0	158.9	70.3	27.8	1	1	135
## 55	55	59	0	3	0	174.5	85.8	28.2	1	0	138
## 56	56	70	1	4	2	162.4	80.9	30.7	1	0	133
## 57	57	60	1	3	0	171.6	77.9	26.5	0	0	125
## 58	58	62	1	1	1	166.6	79.3	28.5	0	0	127
## 59	59	54	1	3	0	171.4	92.6	31.5	0	0	122
## 60	60	57	1	1	0	169.4	75.5	26.3	0	0	125
## 61	61	68	1	4	0	178.5	90.9	28.5	1	0	134
## 62	62	53	1	1	1	165.6	87.6	32.0	0	0	124
## 63	63	56	1	1	0	159.3	73.6	29.0	0	0	125
## 64	64	52	0	3	0	167.3	71.7	25.6	0	0	130
## 65	65	54	1	1	0	174.3	69.4	22.8	1	1	134
## 66	66	63	0	1	1	173.7	65.9	21.8	1	0	133
## 67	67	52	0	4	0	169.2	80.8	28.2	0	1	120
## 68	68	57	0	2	0	168.2	83.3	29.4	0	0	122
## 69	69	59	0	1	0	170.4	83.2	28.7	0	0	130
## 70	70	65	0	2	1	167.6	82.1	29.2	0	0	125
## 71	71	58	0	1	1	173.5	76.3	25.3	1	0	136
## 72	72	59	0	1	0	169.8	85.6	29.7	0	0	121
## 73	73	63	0	1	0	172.4	68.7	23.1	0	0	125
## 74	74	70	0	4	2	172.2	83.5	28.2	0	0	129
## 75	75	69	0	1	0	170.3	92.0	31.7	0	0	128
## 76	76	58	1	4	0	175.3	79.7	25.9	1	0	134
## 77	77	53	0	3	1	168.9	83.3	29.2	0	1	124
## 78	78	58	1	1	1	166.3	86.6	31.3	0	0	127
## 79	79	66	0	3	0	179.4	83.4	25.9	1	0	137
## 80	80	57	1	3	0	174.9	78.5	25.7	0	1	117
## 81	81	60	0	1	0	167.4	75.1	26.8	1	0	140
## 82	82	69	1	1	0	177.3	74.2	23.6	0	1	125
## 83	83	65	0	1	0	181.4	75.0	22.8	1	1	131
## 84	84	62	0	3	0	166.8	81.1	29.1	1	0	148
## 85	85	52	0	3	2	172.2	81.6	27.5	1	0	133
## 86	86	60	1	3	1	177.5	81.9	26.0	1	0	136
## 87	87	60	1	1	0	168.1	79.0	27.9	0	0	125
## 88	88	65	0	4	1	170.9	75.7	25.9	0	0	128
## 89	89	61	1	3	2	170.5	66.1	22.7	0	0	127
## 90	90	59	0	1	0	167.4	88.2	31.5	0	0	126
## 91	91	55	1	1	0	175.3	82.0	26.7	0	0	118
## 92	92	60	0	1	0	163.0	72.6	27.3	1	0	140
## 93	93	61	0	1	0	169.3	76.4	26.7	1	0	135
## 94	94	63	1	3	0	163.3	76.3	28.6	1	0	147

## 95	95	58	0	3	2	166.3	87.4	31.6	0	1	123
## 96	96	62	0	1	0	160.2	80.0	31.2	1	0	144
## 97	97	56	0	4	0	165.1	82.7	30.3	0	0	128
## 98	98	62	0	1	1	171.9	82.7	28.0	1	0	134
## 99	99	62	0	4	0	186.2	81.5	23.5	1	0	146
## 100	100	67	0	2	0	166.7	77.5	27.9	1	0	139
## 101	101	67	0	3	0	175.8	94.3	30.5	1	0	133
## 102	102	60	0	1	1	165.6	83.6	30.5	1	0	143
## 103	103	54	1	1	1	162.8	72.1	27.2	0	0	124
## 104	104	58	1	1	1	162.8	75.6	28.5	1	0	139
## 105	105	56	0	4	2	175.1	90.5	29.5	0	0	110
## 106	106	61	1	3	2	169.8	81.3	28.2	0	0	125
## 107	107	63	1	4	0	174.2	84.5	27.8	1	1	131
## 108	108	59	0	1	0	172.5	72.5	24.4	0	0	114
## 109	109	60	0	1	2	161.9	81.8	31.2	0	0	124
## 110	110	56	0	3	1	165.4	81.9	29.9	0	0	122
## 111	111	63	0	3	0	162.4	64.9	24.6	1	1	138
## 112	112	59	1	1	0	165.3	75.6	27.7	1	0	139
## 113	113	72	0	1	1	163.4	72.4	27.1	1	0	147
## 114	114	61	1	1	1	162.2	88.2	33.5	1	1	131
## 115	115	58	1	3	0	172.0	75.5	25.5	0	1	127
## 116	116	58	1	3	0	162.5	81.4	30.8	1	0	132
## 117	117	52	1	1	0	164.5	85.7	31.7	0	0	127
## 118	118	53	0	4	1	163.3	83.7	31.4	0	0	123
## 119	119	59	1	1	0	180.5	90.8	27.9	0	0	118
## 120	120	65	1	1	1	169.7	90.5	31.4	1	0	148
## 121	121	64	0	1	0	174.0	87.1	28.8	1	0	136
## 122	122	56	0	1	1	175.0	77.5	25.3	0	0	124
## 123	123	61	1	1	0	173.0	72.2	24.1	0	0	128
## 124	124	56	1	1	0	162.7	66.3	25.0	1	0	133
## 125	125	66	0	1	1	168.1	89.1	31.5	1	0	136
## 126	126	54	1	1	0	165.0	73.8	27.1	0	0	112
## 127	127	59	1	1	0	170.7	69.7	23.9	1	0	138
## 128	128	58	0	2	0	162.9	78.4	29.5	0	0	115
## 129	129	61	1	1	0	164.8	80.6	29.7	1	0	135
## 130	130	60	0	1	0	176.8	89.1	28.5	1	0	137
## 131	131	62	0	1	0	159.2	77.5	30.6	1	1	138
## 132	132	42	1	1	1	178.8	89.7	28.1	0	0	112
## 133	133	55	0	4	0	169.4	72.7	25.3	0	0	128
## 134	134	66	1	1	1	167.0	91.0	32.6	0	0	121
## 135	135	57	0	3	0	173.6	87.0	28.9	0	1	126
## 136	136	62	1	1	0	172.1	80.5	27.2	1	0	133
## 137	137	69	1	3	1	156.1	76.9	31.6	0	0	127
## 138	138	53	1	1	1	172.8	82.7	27.7	0	0	116
## 139	139	70	0	1	1	175.9	85.4	27.6	1	0	143
## 140	140	60	0	3	0	179.7	82.8	25.6	0	0	130
## 141	141	67	0	3	2	174.3	84.2	27.7	0	0	129
## 142	142	58	0	1	0	173.4	76.6	25.5	0	1	121
## 143	143	57	1	1	1	175.0	84.1	27.5	1	1	139
## 144	144	57	0	3	1	171.3	93.1	31.7	0	0	120
## 145	145	58	0	1	0	171.2	72.5	24.7	1	0	134
## 146	146	63	1	4	1	176.2	74.7	24.1	0	0	129
## 147	147	63	1	1	2	166.9	71.0	25.5	1	1	132
## 148	148	61	0	3	2	171.0	77.8	26.6	1	0	141

## 149	149	58	0	1	1	169.7	71.6	24.8	0	0 127
## 150	150	52	0	1	0	164.3	93.5	34.6	0	0 116
## 151	151	61	0	4	1	175.3	87.3	28.4	0	0 115
## 152	152	58	0	1	0	172.8	83.1	27.8	0	0 122
## 153	153	58	1	1	0	175.7	90.2	29.2	0	0 117
## 154	154	56	0	1	0	164.5	86.4	31.9	0	0 130
## 155	155	55	1	1	1	168.5	77.9	27.4	0	0 130
## 156	156	66	0	1	1	154.0	70.2	29.6	1	0 140
## 157	157	60	1	1	0	174.0	78.9	26.1	1	0 133
## 158	158	61	0	3	1	165.5	78.1	28.5	0	0 129
## 159	159	61	0	3	0	164.6	82.1	30.3	1	0 131
## 160	160	54	0	1	0	172.4	72.0	24.2	0	0 120
## 161	161	61	1	3	1	166.4	81.1	29.3	0	0 128
## 162	162	58	1	1	1	167.6	98.7	35.1	1	0 138
## 163	163	63	0	1	2	166.6	93.7	33.7	1	0 143
## 164	164	59	1	1	0	172.0	86.4	29.2	0	0 122
## 165	165	63	0	1	1	166.2	86.6	31.3	1	0 136
## 166	166	71	1	3	0	167.0	71.9	25.8	0	0 128
## 167	167	54	0	4	0	171.3	95.2	32.4	0	0 114
## 168	168	60	1	3	1	161.4	73.0	28.0	1	0 134
## 169	169	57	0	1	0	176.0	89.7	28.9	1	0 137
## 170	170	54	1	1	1	176.9	80.5	25.7	1	0 136
## 171	171	59	1	1	0	177.5	81.3	25.8	1	0 132
## 172	172	61	0	3	1	171.1	65.5	22.4	1	0 131
## 173	173	64	0	4	2	174.1	60.2	19.9	1	0 132
## 174	174	61	1	3	0	164.4	76.4	28.3	0	1 128
## 175	175	56	0	3	2	167.0	80.9	29.0	1	0 134
## 176	176	51	1	1	1	165.0	74.0	27.1	0	0 128
## 177	177	65	0	1	0	183.6	76.8	22.8	1	0 132
## 178	178	61	0	1	0	180.6	92.0	28.2	0	1 121
## 179	179	54	1	1	1	169.5	75.7	26.3	0	0 128
## 180	180	60	1	2	2	160.5	71.1	27.6	1	0 149
## 181	181	57	1	2	1	162.6	85.9	32.5	0	0 130
## 182	182	56	1	1	0	165.8	79.6	28.9	0	0 129
## 183	183	65	1	1	0	168.5	75.0	26.4	0	0 124
## 184	184	60	1	1	0	166.5	82.9	29.9	0	0 128
## 185	185	64	0	1	1	169.2	78.3	27.4	1	0 133
## 186	186	57	1	1	1	171.9	89.8	30.4	0	1 126
## 187	187	67	0	3	1	170.6	79.0	27.1	1	0 133
## 188	188	66	1	1	0	164.3	76.5	28.3	1	0 136
## 189	189	69	0	1	2	172.6	85.4	28.7	1	0 141
## 190	190	57	0	1	1	172.4	80.8	27.2	0	1 127
## 191	191	62	0	4	1	166.7	82.6	29.7	1	0 134
## 192	192	61	0	2	0	179.1	83.2	25.9	1	0 134
## 193	193	59	1	1	0	172.1	83.6	28.2	1	0 143
## 194	194	63	0	3	0	163.7	72.5	27.1	1	0 137
## 195	195	61	0	1	0	172.5	80.4	27.0	1	0 132
## 196	196	63	0	1	0	163.0	72.1	27.1	1	0 135
## 197	197	69	0	1	1	169.7	77.5	26.9	1	0 143
## 198	198	57	0	1	1	161.9	78.9	30.1	0	0 117
## 199	199	54	0	3	0	157.3	81.0	32.8	1	0 134
## 200	200	62	0	3	0	162.8	86.7	32.7	0	0 120
## 201	201	60	1	3	1	170.0	83.8	29.0	0	0 116
## 202	202	65	1	1	0	162.1	73.6	28.0	1	0 135

##	203	203	56	1	1	1	170.5	82.8	28.5	0	1	120
##	204	204	60	1	1	0	164.2	76.6	28.4	1	0	148
##	205	205	66	0	1	0	170.4	91.8	31.6	1	0	139
##	206	206	50	1	3	0	176.8	91.0	29.1	0	0	107
##	207	207	56	0	1	0	175.1	77.8	25.4	0	0	123
##	208	208	67	0	3	0	179.1	79.3	24.7	1	0	137
##	209	209	62	0	3	0	165.5	85.1	31.0	1	0	149
##	210	210	53	0	3	0	174.7	85.1	27.9	0	1	119
##	211	211	67	1	1	1	166.3	76.4	27.6	1	0	139
##	212	212	60	1	1	0	161.9	85.6	32.7	0	0	128
##	213	213	57	1	1	2	161.9	73.5	28.0	1	1	131
##	214	214	67	1	1	0	169.1	78.8	27.6	0	0	125
##	215	215	65	1	3	2	173.6	92.9	30.8	0	0	127
##	216	216	66	0	1	0	166.1	83.2	30.1	0	1	128
##	217	217	67	0	1	0	168.8	87.4	30.7	0	0	129
##	218	218	56	0	2	0	168.7	67.1	23.6	1	0	132
##	219	219	66	0	1	1	182.0	75.2	22.7	1	0	145
##	220	220	59	0	2	0	170.0	73.1	25.3	1	0	132
##	221	221	66	0	3	1	175.8	75.6	24.5	0	0	130
##	222	222	65	1	4	0	170.5	94.9	32.6	1	0	132
##	223	223	61	0	3	2	170.4	76.9	26.5	1	0	142
##	224	224	58	0	1	1	179.3	81.0	25.2	1	0	135
##	225	225	63	1	3	1	172.6	80.8	27.1	1	0	134
##	226	226	60	1	1	1	172.8	79.2	26.5	0	0	127
##	227	227	64	1	1	1	163.4	68.4	25.6	1	0	135
##	228	228	61	0	1	0	180.5	88.3	27.1	0	1	113
##	229	229	60	1	1	0	175.9	89.2	28.8	1	0	131
##	230	230	65	1	1	0	160.9	80.9	31.2	1	0	139
##	231	231	52	1	1	0	178.8	78.6	24.6	0	0	121
##	232	232	68	0	1	0	165.5	78.1	28.5	1	1	135
##	233	233	58	1	1	2	166.6	84.4	30.4	1	0	135
##	234	234	68	1	2	0	175.6	91.7	29.7	1	0	140
##	235	235	54	1	1	0	166.3	72.7	26.3	1	0	140
##	236	236	53	0	1	1	171.5	84.9	28.9	0	0	116
##	237	237	64	1	3	1	166.6	66.2	23.8	0	0	127
##	238	238	62	0	1	1	179.2	89.4	27.8	0	0	130
##	239	239	57	0	3	1	172.3	76.3	25.7	1	0	134
##	240	240	60	0	1	0	167.3	94.4	33.7	1	1	133
##	241	241	64	1	1	0	161.6	62.7	24.0	0	0	120
##	242	242	61	0	2	0	169.8	88.3	30.6	1	0	133
##	243	243	54	1	1	0	169.6	84.5	29.4	0	1	109
##	244	244	57	1	1	2	171.6	85.9	29.2	0	0	130
##	245	245	56	1	3	1	171.1	80.3	27.4	1	0	132
##	246	246	62	1	4	1	178.9	83.5	26.1	1	1	143
##	247	247	55	0	3	0	166.8	77.8	28.0	0	0	123
##	248	248	62	0	1	1	164.6	66.7	24.6	0	1	129
##	249	249	58	0	1	1	168.6	79.2	27.9	1	0	136
##	250	250	60	0	1	0	168.2	81.7	28.9	0	0	123
##	251	251	59	1	1	2	156.3	85.9	35.2	1	0	137
##	252	252	63	0	1	1	170.8	87.3	29.9	1	0	138
##	253	253	55	0	4	0	171.8	73.5	24.9	0	0	128
##	254	254	60	0	1	0	181.0	75.6	23.1	1	0	132
##	255	255	62	1	1	2	165.3	76.5	28.0	0	0	125
##	256	256	66	0	3	1	178.4	77.6	24.4	0	0	130

## 257	257	63	0	3	1	175.3	75.0	24.4	1	1 143
## 258	258	60	0	3	0	156.7	81.4	33.1	1	0 134
## 259	259	66	0	1	0	176.7	89.5	28.7	0	0 126
## 260	260	62	1	2	0	168.7	61.2	21.5	0	0 121
## 261	261	70	1	3	1	154.4	71.9	30.2	1	0 135
## 262	262	63	0	3	2	164.8	78.9	29.0	1	0 138
## 263	263	57	1	1	1	172.1	85.7	28.9	0	0 127
## 264	264	57	0	3	1	179.7	84.2	26.1	0	0 119
## 265	265	63	1	1	0	171.4	73.4	25.0	1	0 148
## 266	266	59	1	4	1	163.0	75.2	28.3	1	1 132
## 267	267	62	0	1	0	167.7	82.3	29.3	1	0 138
## 268	268	63	1	1	0	173.7	96.7	32.1	1	1 133
## 269	269	55	1	1	0	173.4	73.3	24.4	0	0 124
## 270	270	58	1	1	0	176.7	83.9	26.9	0	0 123
## 271	271	57	1	4	1	162.6	72.9	27.5	0	0 120
## 272	272	66	1	1	0	177.3	80.9	25.7	1	1 132
## 273	273	63	1	1	2	170.8	87.2	29.9	0	0 128
## 274	274	56	0	4	2	162.4	81.6	30.9	0	0 114
## 275	275	58	1	3	1	169.0	91.9	32.2	0	0 127
## 276	276	57	0	1	2	166.1	87.0	31.5	0	0 128
## 277	277	59	1	1	1	166.6	83.3	30.0	0	0 128
## 278	278	54	0	4	0	175.1	88.1	28.7	0	0 117
## 279	279	58	0	1	1	168.9	76.7	26.9	0	1 129
## 280	280	65	0	4	0	169.7	77.6	26.9	0	0 126
## 281	281	67	0	4	0	165.2	82.1	30.1	1	0 144
## 282	282	64	1	1	0	161.6	84.1	32.2	0	0 130
## 283	283	66	1	3	1	164.8	94.6	34.9	1	0 131
## 284	284	57	1	1	1	165.8	84.8	30.8	1	0 131
## 285	285	65	0	3	0	172.1	65.7	22.2	1	0 138
## 286	286	54	1	4	0	171.5	87.3	29.7	1	0 139
## 287	287	60	1	1	0	162.3	85.4	32.4	1	0 131
## 288	288	61	1	2	2	163.5	94.9	35.5	0	0 119
## 289	289	56	1	1	0	165.4	76.8	28.1	0	0 119
## 290	290	60	0	4	1	168.5	70.3	24.8	1	0 143
## 291	291	64	0	1	0	175.0	71.6	23.4	0	0 125
## 292	292	60	0	1	1	167.8	87.6	31.1	1	0 131
## 293	293	63	1	1	0	173.7	84.6	28.0	0	0 129
## 294	294	57	0	1	0	174.4	78.9	25.9	0	0 130
## 295	295	62	1	1	0	170.7	72.9	25.0	0	0 121
## 296	296	62	0	3	0	167.4	76.0	27.1	1	0 135
## 297	297	65	0	1	2	164.2	75.9	28.2	1	0 133
## 298	298	65	0	4	1	169.5	81.1	28.2	1	0 136
## 299	299	60	0	3	0	169.0	85.5	29.9	0	0 130
## 300	300	60	0	1	2	171.4	85.8	29.2	1	0 143
## 301	301	61	1	3	2	177.1	73.9	23.6	0	0 125
## 302	302	60	0	1	0	174.7	77.8	25.5	0	0 130
## 303	303	59	0	1	0	176.4	80.4	25.9	1	1 135
## 304	304	60	1	1	0	170.2	75.7	26.1	1	0 139
## 305	305	64	1	3	1	159.9	80.2	31.4	0	0 126
## 306	306	58	0	1	0	166.7	81.8	29.5	0	0 121
## 307	307	63	0	1	0	180.0	82.8	25.6	1	0 139
## 308	308	60	1	1	1	162.0	76.2	29.1	1	0 140
## 309	309	66	1	1	0	161.7	80.2	30.7	0	0 123
## 310	310	60	0	3	1	175.7	97.3	31.5	0	0 118

## 311	311	63	0	1	1	163.8	77.8	29.0	1	0	131
## 312	312	61	0	4	2	170.1	84.7	29.3	0	0	126
## 313	313	53	1	1	0	171.8	89.3	30.3	0	0	118
## 314	314	69	0	1	0	172.4	75.3	25.4	1	0	137
## 315	315	67	1	3	1	166.0	75.8	27.5	1	0	132
## 316	316	61	0	3	0	169.3	73.8	25.8	0	0	120
## 317	317	62	1	3	1	164.6	77.2	28.5	1	0	138
## 318	318	59	0	3	0	160.7	80.8	31.3	1	1	137
## 319	319	52	1	1	0	181.7	94.0	28.5	0	0	120
## 320	320	56	0	1	0	156.8	77.7	31.6	1	1	134
## 321	321	55	1	3	0	155.6	78.1	32.2	1	0	143
## 322	322	59	0	1	1	174.6	80.9	26.5	0	0	110
## 323	323	62	0	1	0	166.2	80.8	29.3	1	1	137
## 324	324	64	0	1	0	161.0	73.5	28.4	0	0	126
## 325	325	62	0	1	0	177.9	85.7	27.1	1	0	143
## 326	326	57	0	1	2	174.4	79.9	26.3	0	0	122
## 327	327	58	1	1	0	157.3	74.8	30.2	0	0	123
## 328	328	61	0	1	0	161.7	72.7	27.8	0	0	130
## 329	329	67	0	1	1	170.8	85.3	29.2	1	0	134
## 330	330	58	0	2	0	169.9	71.1	24.6	0	0	113
## 331	331	74	0	1	0	171.9	72.8	24.6	1	0	135
## 332	332	54	1	3	0	183.6	77.0	22.8	0	0	122
## 333	333	54	1	4	0	167.7	75.3	26.8	0	0	121
## 334	334	62	0	1	0	178.3	67.5	21.2	0	0	117
## 335	335	61	0	3	0	171.5	71.8	24.4	0	0	125
## 336	336	64	0	1	2	179.0	88.7	27.7	1	0	141
## 337	337	61	0	3	0	167.5	72.7	25.9	1	0	149
## 338	338	59	1	1	1	173.3	85.5	28.5	1	0	131
## 339	339	57	1	1	1	164.7	86.3	31.8	1	0	134
## 340	340	60	1	1	0	160.7	88.9	34.4	0	0	124
## 341	341	70	1	3	2	173.1	89.9	30.0	1	1	142
## 342	342	60	1	4	0	161.0	82.0	31.6	1	1	133
## 343	343	68	1	1	1	167.2	87.2	31.2	1	0	144
## 344	344	54	0	1	1	165.3	76.5	28.0	1	1	137
## 345	345	56	1	1	1	173.9	70.2	23.2	1	0	148
## 346	346	57	0	1	1	182.5	85.5	25.7	1	1	136
## 347	347	66	1	1	0	172.1	74.7	25.2	1	0	137
## 348	348	60	1	1	1	173.7	69.9	23.2	0	0	121
## 349	349	61	0	1	2	162.8	77.0	29.1	0	0	126
## 350	350	58	0	1	1	171.3	75.4	25.7	1	0	145
## 351	351	57	0	3	1	167.0	87.7	31.4	1	0	132
## 352	352	60	1	1	2	168.8	79.2	27.8	0	0	128
## 353	353	53	0	1	0	173.5	74.6	24.8	0	0	128
## 354	354	61	1	1	0	165.8	70.9	25.8	0	0	109
## 355	355	67	0	4	2	167.9	77.7	27.5	1	1	144
## 356	356	53	1	1	0	174.2	76.4	25.2	0	0	124
## 357	357	71	1	3	0	176.6	74.6	23.9	0	0	130
## 358	358	65	1	1	0	161.8	93.6	35.7	1	0	149
## 359	359	62	0	3	0	163.7	67.2	25.1	1	0	135
## 360	360	65	1	3	1	176.8	88.0	28.2	1	0	151
## 361	361	61	0	2	0	177.2	79.6	25.4	1	0	138
## 362	362	62	0	1	1	155.5	88.7	36.7	1	0	136
## 363	363	58	0	1	0	172.1	72.9	24.6	1	0	139
## 364	364	61	0	3	1	161.9	84.5	32.2	1	1	140

## 365	365	65	1	3	0	172.1	87.1	29.4	1	0 137
## 366	366	56	0	2	0	172.1	70.2	23.7	1	0 133
## 367	367	51	0	1	2	181.4	81.2	24.7	0	1 115
## 368	368	56	0	1	1	170.7	84.9	29.1	0	0 122
## 369	369	53	1	1	1	163.9	73.2	27.3	0	0 126
## 370	370	67	0	2	0	170.6	70.2	24.1	1	0 146
## 371	371	61	1	4	0	171.6	79.0	26.8	1	0 139
## 372	372	51	0	1	0	168.3	86.9	30.7	0	0 121
## 373	373	61	0	1	0	173.9	92.2	30.5	0	0 119
## 374	374	56	1	1	0	165.8	80.7	29.4	0	0 126
## 375	375	66	1	1	0	167.1	69.5	24.9	1	0 133
## 376	376	62	1	1	1	169.7	82.9	28.8	1	0 132
## 377	377	59	0	1	0	162.4	65.7	24.9	1	0 138
## 378	378	58	1	3	0	159.4	80.5	31.7	0	1 129
## 379	379	60	1	1	0	175.1	78.4	25.6	0	0 118
## 380	380	57	0	1	0	180.0	87.8	27.1	0	0 123
## 381	381	61	0	1	0	181.1	72.6	22.1	1	1 137
## 382	382	56	0	2	1	162.7	76.5	28.9	1	0 153
## 383	383	59	0	1	0	175.7	81.0	26.2	0	0 121
## 384	384	62	0	1	0	173.8	89.2	29.5	0	0 128
## 385	385	54	0	1	1	173.5	76.7	25.5	0	0 116
## 386	386	61	1	1	1	173.0	82.7	27.6	1	0 138
## 387	387	64	0	1	1	170.2	72.4	25.0	1	0 136
## 388	388	58	1	1	0	176.7	84.8	27.2	0	0 117
## 389	389	61	1	3	0	173.7	86.0	28.5	1	1 145
## 390	390	66	1	1	0	170.6	84.6	29.1	0	1 128
## 391	391	61	1	1	0	163.8	83.4	31.1	1	0 142
## 392	392	65	1	1	0	169.0	85.9	30.1	1	0 131
## 393	393	60	0	1	0	174.3	86.1	28.3	1	0 131
## 394	394	56	0	1	1	177.9	85.0	26.9	1	0 131
## 395	395	70	0	3	1	168.3	77.7	27.4	1	0 135
## 396	396	56	0	1	0	158.5	88.9	35.4	1	0 132
## 397	397	59	0	1	0	168.3	79.5	28.1	1	0 140
## 398	398	57	1	3	0	169.1	71.7	25.1	0	0 127
## 399	399	57	0	1	0	170.0	85.6	29.6	1	0 133
## 400	400	59	1	1	0	165.0	67.5	24.8	0	0 129
## 401	401	60	1	1	1	173.9	75.1	24.8	0	0 129
## 402	402	68	1	1	1	168.5	82.5	29.1	1	0 134
## 403	403	58	0	1	1	178.5	86.3	27.1	0	1 128
## 404	404	58	0	1	1	159.9	68.6	26.8	0	0 128
## 405	405	57	1	1	0	177.3	84.4	26.8	1	0 138
## 406	406	59	1	4	0	169.7	77.9	27.0	0	0 129
## 407	407	56	1	4	2	173.4	84.7	28.2	0	0 125
## 408	408	59	0	1	0	167.1	79.4	28.5	0	0 125
## 409	409	59	0	1	1	174.8	83.6	27.4	0	0 125
## 410	410	53	1	2	0	164.5	89.1	32.9	1	0 136
## 411	411	58	1	1	0	171.1	73.3	25.1	0	0 127
## 412	412	62	1	1	0	161.6	79.0	30.3	0	0 125
## 413	413	65	0	1	0	177.0	72.0	23.0	1	0 141
## 414	414	62	0	1	1	168.4	73.4	25.9	1	0 142
## 415	415	61	0	3	1	172.7	76.8	25.7	1	0 135
## 416	416	67	1	3	2	173.5	79.3	26.3	1	0 136
## 417	417	61	1	1	0	169.8	79.8	27.7	1	0 141
## 418	418	58	0	1	0	172.6	96.2	32.3	0	0 123

## 419	419	71	1	1	0	175.6	77.1	25.0	1	0 136
## 420	420	59	1	1	1	163.7	71.4	26.6	1	0 138
## 421	421	66	1	1	0	167.8	75.1	26.7	1	0 142
## 422	422	59	0	3	0	154.2	67.0	28.2	0	1 127
## 423	423	56	0	1	0	175.0	89.0	29.0	0	0 127
## 424	424	53	1	1	0	169.5	68.9	24.0	0	0 120
## 425	425	54	1	1	0	169.6	74.8	26.0	0	0 121
## 426	426	64	0	1	2	168.0	68.5	24.3	0	0 129
## 427	427	65	0	1	0	173.4	79.8	26.5	0	0 130
## 428	428	65	1	3	1	168.0	69.0	24.4	1	1 141
## 429	429	57	1	3	0	166.2	78.7	28.5	0	1 125
## 430	430	70	0	1	0	170.4	89.9	31.0	0	0 128
## 431	431	57	1	1	1	161.5	77.3	29.6	1	0 132
## 432	432	61	1	4	0	168.8	75.8	26.6	0	0 127
## 433	433	62	1	4	0	167.6	66.4	23.6	0	0 127
## 434	434	53	0	4	0	167.3	70.4	25.2	0	0 119
## 435	435	67	0	1	0	165.5	89.8	32.8	1	0 148
## 436	436	62	1	1	0	179.5	80.6	25.0	0	0 126
## 437	437	56	0	1	1	173.8	77.9	25.8	0	0 127
## 438	438	77	1	1	2	168.0	86.3	30.6	1	0 153
## 439	439	63	1	1	0	164.6	81.8	30.2	1	0 132
## 440	440	65	0	1	0	159.6	82.8	32.5	1	0 134
## 441	441	64	1	1	0	165.6	73.4	26.8	1	0 137
## 442	442	60	0	3	0	165.6	78.0	28.4	1	0 133
## 443	443	60	1	1	0	170.0	87.5	30.3	0	1 129
## 444	444	62	1	1	1	167.3	71.5	25.5	1	0 132
## 445	445	61	0	1	1	169.0	82.4	28.8	1	0 132
## 446	446	59	1	1	2	167.4	81.4	29.0	0	0 119
## 447	447	64	1	1	0	156.0	83.8	34.5	0	0 126
## 448	448	58	1	4	1	175.7	77.0	25.0	0	0 121
## 449	449	66	1	3	1	158.5	90.3	35.9	1	0 137
## 450	450	59	0	1	0	166.4	72.1	26.0	0	1 129
## 451	451	61	1	4	0	168.1	75.1	26.5	0	0 130
## 452	452	60	1	1	2	178.2	74.9	23.6	0	0 126
## 453	453	62	0	1	0	172.8	75.0	25.1	0	0 130
## 454	454	63	0	1	2	171.0	81.0	27.7	1	0 144
## 455	455	62	1	3	0	168.9	70.8	24.8	1	1 141
## 456	456	59	1	1	0	175.2	76.0	24.8	0	0 122
## 457	457	62	0	1	2	179.2	78.5	24.5	0	0 130
## 458	458	68	1	1	0	161.4	80.5	30.9	1	0 144
## 459	459	64	1	4	0	180.1	81.3	25.1	1	1 145
## 460	460	60	1	1	0	184.0	78.6	23.2	1	0 137
## 461	461	60	1	1	0	172.9	72.4	24.2	1	0 132
## 462	462	64	0	3	0	176.7	85.0	27.2	1	0 132
## 463	463	60	0	1	1	168.2	82.0	29.0	0	0 128
## 464	464	63	0	2	0	176.8	86.6	27.7	1	0 139
## 465	465	64	0	2	0	161.7	80.2	30.7	1	0 141
## 466	466	56	1	3	2	174.9	70.1	22.9	1	1 138
## 467	467	58	0	1	1	179.1	87.7	27.3	0	0 118
## 468	468	67	1	1	2	179.8	79.2	24.5	1	1 140
## 469	469	54	0	3	2	173.4	73.0	24.3	0	1 121
## 470	470	72	0	3	0	172.5	77.1	25.9	1	0 132
## 471	471	64	0	1	1	164.2	71.4	26.5	1	0 136
## 472	472	59	0	3	0	159.5	74.2	29.1	0	0 129

## 473	473	57	0	4	0	182.7	81.7	24.5	0	0 129
## 474	474	65	0	3	0	166.6	75.9	27.4	1	0 136
## 475	475	61	1	1	1	172.8	82.7	27.7	1	0 131
## 476	476	60	1	1	0	166.0	79.1	28.7	0	0 125
## 477	477	53	1	4	0	166.5	81.7	29.5	0	1 121
## 478	478	72	0	4	1	179.5	94.0	29.2	1	0 133
## 479	479	62	0	1	0	170.5	85.6	29.5	1	0 137
## 480	480	60	1	1	0	175.6	80.0	26.0	0	0 130
## 481	481	55	0	1	1	163.5	86.0	32.2	0	0 117
## 482	482	68	1	1	2	167.0	62.3	22.3	1	0 133
## 483	483	60	1	1	1	171.2	88.0	30.0	1	0 132
## 484	484	59	1	1	0	173.0	78.1	26.1	0	0 121
## 485	485	64	1	3	2	178.2	75.5	23.8	1	0 134
## 486	486	58	0	1	0	166.8	80.0	28.8	1	0 131
## 487	487	61	1	3	1	168.1	95.0	33.6	0	0 128
## 488	488	56	0	1	0	166.7	72.1	26.0	0	0 130
## 489	489	54	1	3	1	167.0	79.1	28.4	0	0 127
## 490	490	50	1	1	1	171.2	91.9	31.4	0	0 106
## 491	491	70	0	3	0	156.7	83.3	33.9	1	1 144
## 492	492	58	1	1	1	172.4	79.7	26.8	0	0 127
## 493	493	59	1	1	1	172.0	79.7	27.0	1	0 146
## 494	494	53	1	3	0	175.1	85.9	28.0	0	1 107
## 495	495	56	1	1	0	161.4	76.2	29.3	1	0 138
## 496	496	62	0	1	0	165.0	75.5	27.7	0	0 126
## 497	497	63	0	1	1	158.9	88.1	34.9	1	0 137
## 498	498	61	1	1	1	182.2	91.9	27.7	1	0 134
## 499	499	62	0	4	0	173.4	87.1	29.0	1	0 136
## 500	500	63	1	3	0	159.6	77.7	30.5	1	0 138
## 501	501	67	1	1	1	168.1	64.7	22.9	1	0 139
## 502	502	67	1	1	0	174.3	73.5	24.2	1	1 136
## 503	503	57	0	1	1	166.1	74.6	27.0	1	0 131
## 504	504	75	0	1	1	178.6	75.9	23.8	1	0 146
## 505	505	52	0	1	2	172.7	82.4	27.6	0	0 121
## 506	506	58	1	3	0	180.2	83.1	25.6	1	1 134
## 507	507	67	0	1	1	171.5	68.1	23.2	1	0 131
## 508	508	66	0	1	0	171.8	87.4	29.6	1	0 131
## 509	509	46	1	3	0	178.1	73.8	23.3	0	0 110
## 510	510	61	1	4	0	166.9	73.5	26.4	0	1 128
## 511	511	54	1	1	0	154.9	66.2	27.6	0	0 126
## 512	512	63	0	1	0	162.4	84.6	32.1	0	1 127
## 513	513	52	0	3	0	163.5	90.4	33.8	0	0 129
## 514	514	63	0	2	2	174.1	78.4	25.9	1	0 145
## 515	515	65	0	3	0	164.0	69.8	25.9	0	0 130
## 516	516	61	1	1	2	166.2	75.4	27.3	0	1 114
## 517	517	62	1	1	0	164.2	85.0	31.5	1	0 136
## 518	518	60	1	2	1	173.5	78.4	26.1	0	1 123
## 519	519	69	0	4	0	169.1	80.2	28.1	1	1 149
## 520	520	60	1	4	0	168.9	83.3	29.2	0	0 128
## 521	521	57	1	1	0	171.0	85.5	29.2	0	0 124
## 522	522	56	0	1	1	170.0	84.0	29.1	0	0 125
## 523	523	53	0	1	0	171.0	78.1	26.7	0	0 115
## 524	524	58	1	1	0	159.5	71.6	28.2	1	1 134
## 525	525	62	0	1	0	168.8	76.5	26.9	1	1 134
## 526	526	67	0	2	0	169.8	89.8	31.2	1	1 144

## 527	527	55	0	4	0	170.8	78.3	26.8	0	0 130
## 528	528	57	1	3	0	162.8	80.1	30.2	0	0 124
## 529	529	57	0	1	1	161.9	84.7	32.3	1	0 145
## 530	530	62	1	1	2	176.2	82.7	26.6	1	0 131
## 531	531	65	0	1	0	160.4	74.4	28.9	1	0 137
## 532	532	54	1	3	0	169.7	84.3	29.3	0	0 123
## 533	533	61	1	1	0	168.5	80.4	28.3	1	0 136
## 534	534	60	0	1	0	171.4	72.7	24.8	1	0 137
## 535	535	63	1	2	1	180.7	85.9	26.3	1	0 131
## 536	536	57	1	2	0	162.8	82.6	31.2	0	0 128
## 537	537	60	1	1	0	169.2	89.9	31.4	1	0 134
## 538	538	65	0	3	0	174.5	75.4	24.8	1	0 137
## 539	539	60	0	2	0	170.0	72.8	25.2	0	0 124
## 540	540	56	1	3	1	174.0	75.8	25.0	1	0 132
## 541	541	65	0	1	2	172.3	70.2	23.6	1	0 143
## 542	542	55	1	3	0	174.1	86.1	28.4	0	0 108
## 543	543	58	0	3	1	168.6	79.2	27.9	0	0 115
## 544	544	61	1	1	0	154.2	73.4	30.8	1	0 142
## 545	545	65	0	1	1	160.3	75.0	29.2	1	0 139
## 546	546	63	0	1	0	176.5	84.2	27.0	0	0 121
## 547	547	55	0	1	0	168.4	82.5	29.1	1	0 139
## 548	548	60	1	2	0	166.1	69.4	25.2	0	0 130
## 549	549	63	1	1	0	175.5	74.5	24.2	1	0 140
## 550	550	64	1	1	1	167.5	72.7	25.9	0	0 130
## 551	551	61	1	1	0	171.9	87.4	29.6	1	0 139
## 552	552	51	0	3	1	162.8	75.6	28.5	1	1 132
## 553	553	62	0	3	1	169.2	90.8	31.7	0	0 121
## 554	554	64	1	1	0	159.3	71.2	28.1	1	0 141
## 555	555	61	1	1	1	160.6	81.8	31.7	1	1 135
## 556	556	63	0	3	1	168.5	80.1	28.2	1	1 135
## 557	557	59	0	1	0	171.0	79.9	27.3	0	0 125
## 558	558	55	1	1	0	170.0	74.0	25.6	0	0 120
## 559	559	63	1	1	0	165.9	64.9	23.6	1	0 136
## 560	560	61	1	1	0	179.0	75.7	23.6	1	0 143
## 561	561	62	1	1	2	158.6	76.3	30.3	0	0 128
## 562	562	71	0	1	1	173.2	86.9	29.0	1	0 134
## 563	563	63	1	1	1	165.3	72.6	26.6	1	1 140
## 564	564	58	0	1	0	170.5	71.8	24.7	0	0 123
## 565	565	59	1	3	0	166.3	76.5	27.7	0	0 125
## 566	566	60	0	3	0	167.0	83.1	29.8	0	0 126
## 567	567	49	0	1	1	171.1	71.6	24.5	0	1 118
## 568	568	53	1	1	0	174.2	72.3	23.8	0	0 114
## 569	569	68	1	1	0	177.8	85.7	27.1	1	0 142
## 570	570	55	0	1	1	174.0	85.2	28.2	0	0 124
## 571	571	64	1	4	0	168.5	90.7	31.9	1	1 136
## 572	572	61	1	1	0	177.1	80.8	25.7	1	0 137
## 573	573	59	1	1	0	169.4	77.4	27.0	1	0 140
## 574	574	62	1	1	2	174.3	93.6	30.8	1	1 133
## 575	575	66	0	1	0	167.2	79.3	28.4	0	0 130
## 576	576	62	1	1	0	170.5	81.1	27.9	1	1 131
## 577	577	61	1	1	0	163.4	83.4	31.2	0	1 130
## 578	578	62	0	2	0	166.8	85.1	30.6	0	1 130
## 579	579	59	0	3	0	171.6	86.9	29.5	1	0 136
## 580	580	60	0	3	0	163.9	93.1	34.6	1	0 141

## 581	581	65	0	1	2	164.8	70.9	26.1	1	0	140
## 582	582	53	0	1	1	166.6	76.8	27.7	0	0	127
## 583	583	52	1	3	0	174.7	88.2	28.9	0	0	126
## 584	584	54	1	1	0	170.1	75.1	26.0	1	0	133
## 585	585	61	1	1	0	170.3	76.8	26.5	1	0	138
## 586	586	63	1	3	1	179.1	93.5	29.2	1	0	149
## 587	587	58	0	1	0	168.4	74.1	26.1	1	0	134
## 588	588	63	0	3	0	169.2	69.3	24.2	1	0	140
## 589	589	60	1	3	2	176.1	75.9	24.5	1	0	140
## 590	590	60	1	1	0	177.6	85.8	27.2	1	0	134
## 591	591	61	0	3	0	160.0	78.2	30.5	0	0	124
## 592	592	67	0	1	1	165.6	78.2	28.5	1	0	139
## 593	593	61	1	1	0	182.0	71.6	21.6	0	0	124
## 594	594	54	0	4	0	177.5	74.4	23.6	0	0	129
## 595	595	64	0	1	0	169.5	82.9	28.8	0	0	124
## 596	596	62	1	3	0	163.3	76.6	28.7	0	0	125
## 597	597	57	0	1	0	161.1	84.2	32.4	0	0	124
## 598	598	63	0	3	1	162.6	78.9	29.9	0	0	124
## 599	599	61	0	3	0	166.2	66.3	24.0	0	0	119
## 600	600	53	0	1	0	165.8	82.2	29.9	0	0	119
## 601	601	57	0	1	1	167.6	82.6	29.4	1	0	145
## 602	602	62	0	3	0	166.0	76.3	27.7	0	0	127
## 603	603	64	0	1	1	179.3	86.1	26.8	0	0	121
## 604	604	74	0	4	0	161.9	90.3	34.5	0	0	128
## 605	605	56	1	1	0	177.4	86.1	27.4	0	0	124
## 606	606	65	0	3	1	167.4	84.3	30.1	0	0	127
## 607	607	64	0	4	0	159.9	70.7	27.6	0	0	126
## 608	608	60	0	1	0	178.9	78.9	24.7	1	0	135
## 609	609	63	1	3	0	183.8	83.2	24.6	0	0	129
## 610	610	59	1	4	0	160.0	79.3	31.0	1	0	133
## 611	611	49	1	1	2	166.3	77.5	28.0	0	0	124
## 612	612	66	0	1	0	173.6	86.6	28.7	1	0	147
## 613	613	65	1	4	0	177.3	93.2	29.7	1	0	147
## 614	614	68	0	3	0	173.1	85.8	28.7	1	1	131
## 615	615	63	1	4	0	173.0	68.3	22.8	1	0	141
## 616	616	56	0	1	0	174.1	87.1	28.7	0	0	126
## 617	617	60	1	1	0	170.9	78.2	26.8	1	0	133
## 618	618	50	1	3	0	167.6	77.1	27.4	0	0	130
## 619	619	58	0	1	2	174.5	71.2	23.4	1	1	136
## 620	620	60	1	1	0	170.0	80.7	27.9	0	0	128
## 621	621	61	1	1	2	175.2	74.6	24.3	1	0	135
## 622	622	53	1	4	0	160.8	73.3	28.3	0	0	121
## 623	623	68	0	1	0	175.1	80.9	26.4	1	0	141
## 624	624	63	0	1	0	166.7	76.9	27.7	1	0	138
## 625	625	64	0	1	0	170.4	70.1	24.2	0	0	130
## 626	626	57	0	1	0	163.2	95.2	35.7	0	0	129
## 627	627	66	0	1	0	170.9	78.5	26.9	1	0	141
## 628	628	64	1	1	0	176.5	70.0	22.5	1	0	135
## 629	629	57	0	3	0	165.6	85.1	31.0	0	0	124
## 630	630	56	0	1	0	169.6	67.1	23.3	0	0	127
## 631	631	61	1	1	0	172.7	76.1	25.5	0	0	124
## 632	632	62	0	1	1	161.8	71.6	27.3	1	0	135
## 633	633	59	1	1	1	168.9	80.8	28.3	1	0	141
## 634	634	60	1	1	0	171.8	87.3	29.6	1	0	133

## 635	635	56	1	4	0	169.0	77.2	27.0	0	0 124
## 636	636	60	1	1	0	177.0	74.4	23.8	1	0 137
## 637	637	64	1	1	0	167.0	72.7	26.1	1	0 134
## 638	638	62	0	1	0	162.3	81.5	30.9	0	0 127
## 639	639	62	0	4	1	170.2	86.7	29.9	1	0 136
## 640	640	57	0	3	1	168.0	79.8	28.3	0	0 124
## 641	641	60	0	1	0	168.1	85.3	30.2	0	1 124
## 642	642	57	1	1	0	170.8	86.1	29.5	0	0 125
## 643	643	55	1	1	0	170.1	76.4	26.4	0	0 117
## 644	644	59	0	2	2	172.9	82.8	27.7	0	0 129
## 645	645	56	1	1	0	175.0	74.3	24.3	1	0 137
## 646	646	56	1	1	0	171.3	100.2	34.1	1	0 131
## 647	647	57	1	1	1	178.3	77.8	24.5	1	0 143
## 648	648	57	1	3	2	172.0	82.2	27.8	0	0 129
## 649	649	65	1	1	1	174.2	79.6	26.2	1	0 138
## 650	650	55	0	1	0	167.6	75.3	26.8	0	0 128
## 651	651	57	1	3	0	165.8	75.0	27.3	0	0 129
## 652	652	65	0	1	0	162.4	86.4	32.8	0	0 130
## 653	653	60	1	1	1	166.1	86.7	31.4	1	0 133
## 654	654	63	0	3	0	173.5	74.7	24.8	0	0 129
## 655	655	61	1	1	0	163.7	79.6	29.7	0	1 126
## 656	656	64	0	4	1	170.7	71.1	24.4	0	1 115
## 657	657	59	1	2	0	166.6	67.8	24.4	0	0 125
## 658	658	52	1	1	1	161.3	72.1	27.7	0	0 123
## 659	659	54	0	1	0	172.9	71.6	24.0	0	0 130
## 660	660	57	0	1	0	172.6	79.0	26.5	0	1 129
## 661	661	59	1	1	0	176.2	81.6	26.3	0	0 128
## 662	662	60	0	1	1	173.1	90.4	30.2	0	0 129
## 663	663	63	0	2	2	183.2	81.4	24.3	1	0 132
## 664	664	56	1	1	2	175.3	73.8	24.0	0	0 117
## 665	665	59	0	3	0	172.6	84.8	28.5	0	0 116
## 666	666	61	0	1	1	170.3	73.4	25.3	0	1 128
## 667	667	67	1	1	0	169.2	81.9	28.6	0	0 129
## 668	668	51	0	2	0	168.6	77.1	27.1	0	0 119
## 669	669	56	1	3	1	164.0	78.6	29.3	0	0 125
## 670	670	59	0	1	0	166.3	81.2	29.4	1	0 135
## 671	671	61	0	2	0	161.8	82.9	31.6	0	0 127
## 672	672	57	0	1	0	167.2	77.7	27.8	0	0 115
## 673	673	61	1	1	0	176.7	79.7	25.5	0	0 128
## 674	674	64	0	3	0	168.5	69.6	24.5	1	0 140
## 675	675	60	0	1	0	163.3	87.8	32.9	0	1 130
## 676	676	71	1	1	0	165.5	73.4	26.8	1	0 135
## 677	677	65	1	1	0	166.7	90.5	32.6	1	1 135
## 678	678	67	1	3	1	171.2	86.0	29.3	0	0 130
## 679	679	61	1	4	2	174.1	85.7	28.3	0	0 130
## 680	680	55	0	1	1	170.4	87.8	30.2	0	0 130
## 681	681	61	1	4	0	171.7	93.7	31.8	0	0 124
## 682	682	52	0	1	1	160.9	74.7	28.9	0	0 128
## 683	683	61	1	3	1	164.0	67.4	25.1	1	0 131
## 684	684	62	0	4	0	173.0	76.4	25.5	0	0 117
## 685	685	56	0	3	1	171.8	86.8	29.4	0	0 123
## 686	686	59	0	1	0	174.0	90.0	29.7	0	0 130
## 687	687	65	1	3	2	175.4	75.1	24.4	0	0 126
## 688	688	64	0	1	2	156.7	84.0	34.2	1	0 135

## 689	689	57	1	1	1	176.0	81.9	26.4	1	0	133
## 690	690	57	1	1	0	175.1	91.2	29.7	1	1	131
## 691	691	59	0	1	0	163.1	67.2	25.3	0	0	126
## 692	692	66	0	1	1	172.8	77.8	26.1	0	0	128
## 693	693	66	0	3	1	173.6	81.4	27.0	1	0	135
## 694	694	66	0	3	0	169.4	89.1	31.0	1	0	138
## 695	695	71	1	1	0	160.0	91.9	35.9	1	0	135
## 696	696	56	0	1	0	167.1	79.4	28.4	0	0	116
## 697	697	63	1	3	2	167.0	81.8	29.3	1	0	137
## 698	698	59	1	1	1	156.9	69.5	28.2	1	0	135
## 699	699	56	1	1	0	175.1	74.6	24.3	0	0	120
## 700	700	64	1	4	0	163.6	81.4	30.4	1	1	136
## 701	701	65	1	1	0	171.7	85.0	28.8	1	0	132
## 702	702	56	1	1	0	175.2	74.3	24.2	0	0	123
## 703	703	60	1	1	0	170.2	73.4	25.4	0	0	130
## 704	704	54	1	4	0	171.1	73.5	25.1	1	1	133
## 705	705	61	0	1	1	168.3	81.2	28.7	0	0	129
## 706	706	63	0	1	1	176.8	82.5	26.4	1	0	131
## 707	707	63	1	1	1	165.6	76.6	27.9	1	0	138
## 708	708	66	0	3	0	162.6	83.8	31.7	1	0	131
## 709	709	56	1	1	1	177.5	78.4	24.9	1	0	132
## 710	710	61	0	1	0	183.2	90.5	27.0	0	0	130
## 711	711	61	1	1	0	187.5	86.7	24.7	0	0	130
## 712	712	67	0	3	0	164.8	73.5	27.1	1	0	133
## 713	713	58	0	1	0	161.9	80.0	30.6	0	0	130
## 714	714	58	0	1	1	166.7	76.5	27.5	0	0	125
## 715	715	52	1	1	1	176.0	76.0	24.5	0	0	115
## 716	716	66	0	1	0	159.3	70.7	27.9	1	0	145
## 717	717	56	1	4	0	169.4	74.7	26.0	0	0	124
## 718	718	61	1	1	2	166.9	78.3	28.1	1	0	131
## 719	719	65	1	3	2	166.1	81.9	29.7	1	0	131
## 720	720	63	0	1	1	184.2	93.4	27.5	1	0	136
## 721	721	65	1	1	0	178.4	80.7	25.4	1	0	147
## 722	722	53	1	2	0	166.4	76.3	27.5	0	0	126
## 723	723	63	1	1	0	167.7	74.4	26.4	1	0	135
## 724	724	62	0	1	0	174.1	74.9	24.7	0	0	125
## 725	725	53	0	4	0	163.2	77.0	28.9	0	0	123
## 726	726	62	1	1	0	174.5	90.6	29.7	0	0	129
## 727	727	62	0	1	0	163.1	70.2	26.4	0	0	130
## 728	728	60	1	1	0	161.9	73.1	27.9	0	0	126
## 729	729	63	0	1	0	163.7	75.4	28.1	1	0	142
## 730	730	51	0	3	0	162.0	67.6	25.7	0	0	130
## 731	731	53	0	1	0	161.4	70.1	26.9	0	0	122
## 732	732	62	1	1	1	172.8	79.6	26.6	0	1	130
## 733	733	59	0	1	0	166.6	75.5	27.2	0	0	128
## 734	734	61	1	1	0	169.3	79.7	27.8	1	1	140
## 735	735	57	1	3	0	173.8	75.2	24.9	0	0	129
## 736	736	57	0	1	1	168.7	98.9	34.8	0	0	118
## 737	737	68	0	1	0	168.2	82.7	29.2	1	0	132
## 738	738	65	0	3	0	178.2	89.6	28.2	0	0	128
## 739	739	66	0	3	1	179.3	75.0	23.3	1	0	140
## 740	740	58	0	1	0	178.0	78.3	24.7	0	0	126
## 741	741	60	0	4	0	161.8	82.0	31.3	1	0	133
## 742	742	64	0	1	0	173.5	70.4	23.4	1	1	148

## 743	743	64	1	3	0	171.5	75.7	25.7	0	0 130
## 744	744	59	1	1	1	172.9	82.9	27.7	0	0 129
## 745	745	70	0	1	0	155.7	84.3	34.8	0	0 130
## 746	746	59	0	1	2	176.6	96.4	30.9	0	1 117
## 747	747	64	1	3	2	187.4	87.0	24.8	1	1 137
## 748	748	57	1	1	1	172.8	75.2	25.2	0	0 111
## 749	749	61	0	3	2	168.0	87.2	30.9	0	0 120
## 750	750	52	0	1	0	169.0	80.9	28.3	0	0 127
## 751	751	61	0	1	0	172.6	85.6	28.8	0	1 127
## 752	752	61	0	2	1	173.5	89.5	29.7	0	0 125
## 753	753	57	0	1	1	166.5	87.8	31.7	0	0 125
## 754	754	64	1	4	1	170.7	79.9	27.4	1	0 133
## 755	755	60	1	1	0	164.8	75.4	27.8	1	0 139
## 756	756	50	0	1	0	169.6	80.8	28.1	0	0 120
## 757	757	64	1	3	1	165.9	78.3	28.5	1	0 132
## 758	758	66	0	3	0	164.6	80.3	29.6	1	0 140
## 759	759	60	1	3	0	169.7	76.1	26.4	1	1 135
## 760	760	58	1	1	0	183.2	76.6	22.8	0	0 125
## 761	761	57	0	1	1	169.5	76.1	26.5	0	0 124
## 762	762	55	0	3	0	176.7	93.5	29.9	1	0 133
## 763	763	56	0	1	2	167.0	80.4	28.9	1	0 134
## 764	764	62	1	3	0	172.2	81.5	27.5	0	0 130
## 765	765	73	1	2	0	175.5	80.2	26.0	1	1 140
## 766	766	66	1	1	0	173.9	70.4	23.3	0	0 130
## 767	767	57	0	3	0	164.3	73.7	27.3	0	0 121
## 768	768	64	0	1	0	172.5	80.6	27.1	1	1 134
## 769	769	58	1	3	0	180.9	100.6	30.7	0	0 129
## 770	770	61	1	1	0	176.9	85.5	27.3	1	0 139
## 771	771	60	0	3	0	174.8	77.1	25.2	1	0 142
## 772	772	63	0	1	0	166.4	89.3	32.3	1	0 139
## 773	773	64	0	1	0	162.4	81.5	30.9	0	0 125
## 774	774	59	0	1	0	171.1	77.4	26.4	0	0 127
## 775	775	64	0	1	0	167.0	62.4	22.4	1	1 138
## 776	776	64	0	4	0	171.2	83.1	28.4	0	0 122
## 777	777	62	1	3	0	180.7	80.8	24.7	1	0 144
## 778	778	65	1	1	0	179.8	93.6	29.0	1	1 141
## 779	779	64	1	1	1	165.0	80.9	29.7	1	0 137
## 780	780	60	0	1	0	175.1	68.5	22.3	1	0 140
## 781	781	67	1	3	1	184.7	82.5	24.2	1	0 141
## 782	782	58	0	3	1	171.8	87.2	29.6	1	0 133
## 783	783	66	1	2	1	167.7	79.3	28.2	1	0 139
## 784	784	55	1	1	1	169.0	79.3	27.8	0	1 126
## 785	785	55	1	1	0	176.1	66.3	21.4	1	0 138
## 786	786	60	0	3	0	170.8	71.6	24.5	0	0 129
## 787	787	62	1	1	0	182.0	91.0	27.5	0	0 127
## 788	788	58	0	1	0	171.5	79.9	27.2	1	0 135
## 789	789	67	0	1	2	166.8	87.2	31.4	1	0 137
## 790	790	63	0	1	1	174.8	88.1	28.8	1	0 138
## 791	791	54	1	1	0	173.2	65.9	22.0	0	0 111
## 792	792	62	1	3	0	169.7	57.8	20.1	1	0 132
## 793	793	58	0	1	1	165.7	79.2	28.9	0	0 118
## 794	794	65	0	1	0	161.8	90.6	34.6	1	0 135
## 795	795	63	1	3	0	178.3	80.7	25.4	0	0 129
## 796	796	55	0	1	1	166.2	72.9	26.4	0	0 121

## 797	797	62	1	1	0	164.5	90.8	33.6	1	0 137
## 798	798	62	1	1	1	174.0	92.2	30.5	0	0 126
## 799	799	66	1	1	0	167.8	79.3	28.2	1	0 142
## 800	800	61	1	1	0	163.7	64.7	24.2	1	1 135
## 801	801	61	0	1	0	170.6	87.1	29.9	1	0 138
## 802	802	62	1	1	0	167.4	80.6	28.8	1	0 136
## 803	803	59	0	1	0	174.1	76.5	25.2	0	0 123
## 804	804	57	0	4	2	168.1	73.5	26.0	0	0 122
## 805	805	69	0	1	0	162.6	92.8	35.1	0	0 130
## 806	806	64	1	1	2	169.7	90.0	31.2	0	0 128
## 807	807	65	0	1	0	178.1	78.2	24.6	1	0 138
## 808	808	62	1	1	0	166.7	85.3	30.7	1	0 135
## 809	809	67	1	1	1	166.9	87.9	31.6	1	0 144
## 810	810	65	0	3	1	165.4	82.4	30.1	1	0 138
## 811	811	51	0	1	0	170.5	89.0	30.6	0	1 108
## 812	812	48	0	4	0	167.3	70.8	25.3	0	1 123
## 813	813	57	0	4	0	181.1	84.7	25.8	1	0 139
## 814	814	60	1	1	1	170.6	79.0	27.2	1	0 138
## 815	815	56	0	1	1	170.4	82.3	28.4	0	0 120
## 816	816	60	0	1	0	171.4	81.7	27.8	1	0 141
## 817	817	67	1	1	1	172.4	78.6	26.5	0	0 125
## 818	818	47	1	1	0	167.7	73.1	26.0	0	1 130
## 819	819	59	0	2	0	175.5	94.5	30.7	1	0 139
## 820	820	57	1	1	2	158.7	78.6	31.2	0	0 123
## 821	821	56	1	1	0	173.3	77.4	25.8	1	1 134
## 822	822	55	0	3	0	171.0	82.4	28.2	0	0 126
## 823	823	67	0	1	1	175.4	85.3	27.7	0	0 121
## 824	824	59	0	1	0	163.7	75.2	28.0	0	0 124
## 825	825	58	1	2	0	162.0	76.0	28.9	0	0 128
## 826	826	54	0	1	2	167.6	72.5	25.8	0	0 125
## 827	827	64	0	1	2	177.1	86.2	27.5	1	0 131
## 828	828	56	0	1	0	166.0	70.2	25.5	0	0 129
## 829	829	55	0	1	0	168.6	74.6	26.3	0	0 130
## 830	830	58	1	1	0	167.2	74.2	26.5	0	1 127
## 831	831	54	0	1	0	168.1	66.1	23.4	0	0 129
## 832	832	60	0	1	0	173.0	75.8	25.3	1	1 134
## 833	833	65	1	1	0	181.5	88.1	26.7	1	0 137
## 834	834	66	1	1	0	172.4	76.9	25.9	1	0 139
## 835	835	64	0	1	0	167.8	67.6	24.0	0	0 124
## 836	836	55	0	1	0	169.3	69.3	24.2	1	0 139
## 837	837	59	1	1	0	166.7	77.4	27.9	0	0 125
## 838	838	60	1	1	0	166.9	77.8	27.9	0	1 128
## 839	839	58	1	1	1	177.6	87.0	27.6	0	0 124
## 840	840	56	1	1	0	172.7	84.1	28.2	0	0 126
## 841	841	67	1	3	0	170.2	72.4	25.0	1	0 132
## 842	842	61	1	1	1	165.6	77.0	28.1	0	0 123
## 843	843	64	0	1	0	167.0	71.1	25.5	0	0 124
## 844	844	61	0	1	1	162.5	73.3	27.8	1	0 131
## 845	845	53	1	1	2	173.0	79.4	26.5	0	0 130
## 846	846	54	1	1	0	175.2	83.7	27.3	0	0 125
## 847	847	61	1	2	0	172.1	76.3	25.8	1	0 132
## 848	848	60	0	3	0	177.7	89.4	28.3	1	1 139
## 849	849	54	1	4	1	169.2	79.2	27.6	1	1 137
## 850	850	58	0	1	0	171.5	88.2	30.0	0	0 124

## 851	851	62	1	1	0	176.6	83.4	26.7	0	0 128
## 852	852	58	0	3	0	181.8	86.2	26.1	1	0 135
## 853	853	69	1	1	1	172.9	76.3	25.5	1	0 134
## 854	854	61	0	1	0	170.2	85.7	29.6	0	0 128
## 855	855	61	1	1	1	163.2	63.6	23.9	0	0 117
## 856	856	61	0	3	1	166.1	71.6	26.0	1	0 131
## 857	857	53	0	1	0	161.6	78.4	30.0	0	1 114
## 858	858	59	1	1	0	175.2	80.1	26.1	0	0 128
## 859	859	67	1	1	1	172.3	95.8	32.3	0	0 128
## 860	860	51	0	1	0	179.3	82.3	25.6	0	0 125
## 861	861	59	0	2	0	167.6	65.9	23.5	0	0 128
## 862	862	58	0	1	1	167.3	88.4	31.6	0	1 115
## 863	863	52	0	3	0	171.4	86.1	29.3	0	0 127
## 864	864	60	1	3	0	169.1	79.3	27.7	0	1 127
## 865	865	65	0	1	1	162.0	94.9	36.2	1	0 132
## 866	866	60	1	1	0	177.3	91.3	29.0	0	0 127
## 867	867	56	1	1	2	170.6	77.4	26.6	1	0 132
## 868	868	64	1	1	1	170.0	88.2	30.5	1	0 144
## 869	869	54	0	1	0	164.3	82.2	30.5	0	0 129
## 870	870	64	0	3	1	178.7	79.2	24.8	1	0 137
## 871	871	62	0	2	2	171.9	81.6	27.6	0	0 130
## 872	872	66	0	3	1	164.1	63.3	23.5	1	0 132
## 873	873	64	0	1	2	170.3	77.5	26.7	0	0 130
## 874	874	58	1	3	0	170.4	78.4	27.0	0	0 123
## 875	875	66	1	1	0	161.2	64.1	24.7	1	0 142
## 876	876	56	1	4	0	174.7	69.2	22.7	0	0 128
## 877	877	59	0	1	0	160.2	68.7	26.8	0	0 114
## 878	878	60	0	4	1	171.6	75.2	25.5	0	0 127
## 879	879	56	0	1	1	158.7	82.5	32.8	0	1 128
## 880	880	60	1	1	2	173.2	80.7	26.9	1	0 140
## 881	881	58	0	1	0	166.5	76.8	27.7	1	0 137
## 882	882	60	0	1	1	175.2	64.4	21.0	1	0 138
## 883	883	57	0	1	0	162.1	82.5	31.4	0	0 118
## 884	884	59	0	4	0	163.0	64.8	24.4	0	0 120
## 885	885	61	0	1	0	171.9	82.6	28.0	1	0 134
## 886	886	68	0	1	1	172.6	82.9	27.8	1	0 141
## 887	887	54	1	1	0	166.9	80.0	28.7	0	1 121
## 888	888	52	1	3	0	172.4	74.0	24.9	0	1 125
## 889	889	53	1	1	2	163.6	75.4	28.2	0	0 118
## 890	890	60	1	1	0	170.7	91.6	31.4	0	0 129
## 891	891	57	0	3	0	174.8	85.7	28.0	1	0 133
## 892	892	53	1	1	0	176.8	78.3	25.1	1	0 132
## 893	893	54	0	1	0	163.3	78.2	29.3	1	1 132
## 894	894	54	0	3	0	158.0	78.6	31.5	0	1 130
## 895	895	52	1	2	0	173.1	82.7	27.6	0	0 113
## 896	896	55	0	1	0	173.0	78.5	26.2	1	0 131
## 897	897	58	0	1	0	163.6	66.4	24.8	1	0 137
## 898	898	62	0	1	2	178.6	80.9	25.4	1	0 131
## 899	899	64	1	4	1	168.9	89.0	31.2	1	0 151
## 900	900	58	0	1	0	169.2	85.1	29.7	0	0 113
## 901	901	64	0	2	1	163.2	74.3	27.9	1	0 138
## 902	902	58	0	1	0	168.1	74.2	26.3	1	0 145
## 903	903	54	0	1	1	175.2	82.1	26.8	1	0 131
## 904	904	56	0	4	1	179.1	78.9	24.6	1	1 135

## 905	905	56	0	1	2	162.2	74.5	28.3	1	0	137
## 906	906	57	1	1	0	168.7	64.5	22.6	1	0	141
## 907	907	65	0	1	0	174.4	87.4	28.8	0	0	122
## 908	908	64	1	3	1	164.1	79.1	29.4	1	0	138
## 909	909	63	1	1	2	167.0	84.3	30.2	1	0	136
## 910	910	59	0	3	0	168.6	75.3	26.5	0	0	129
## 911	911	63	0	3	1	171.6	85.3	29.0	1	0	133
## 912	912	67	0	1	0	169.4	78.6	27.4	0	0	128
## 913	913	61	0	1	0	159.6	86.6	34.0	1	0	132
## 914	914	66	0	3	2	171.4	88.8	30.2	0	0	119
## 915	915	56	1	1	0	168.7	84.8	29.8	0	0	119
## 916	916	65	1	1	0	169.3	77.8	27.1	0	0	129
## 917	917	63	1	1	1	171.0	87.2	29.8	1	0	141
## 918	918	55	0	1	0	170.7	78.3	26.9	0	1	115
## 919	919	59	1	1	0	185.8	87.3	25.3	0	1	128
## 920	920	68	1	3	0	164.0	79.0	29.3	1	0	137
## 921	921	62	0	1	0	172.6	84.7	28.5	1	0	137
## 922	922	58	1	1	0	167.6	76.3	27.2	0	0	129
## 923	923	58	1	1	0	168.0	86.9	30.8	0	0	127
## 924	924	59	1	4	0	178.2	90.3	28.4	1	0	133
## 925	925	66	0	3	0	167.7	72.3	25.7	1	0	135
## 926	926	62	0	1	0	177.4	81.3	25.8	0	1	130
## 927	927	60	0	1	0	166.4	61.6	22.3	1	0	132
## 928	928	62	0	1	1	160.4	78.7	30.6	0	0	120
## 929	929	61	1	1	1	165.8	88.3	32.1	1	0	140
## 930	930	56	1	1	0	170.8	71.3	24.4	0	0	128
## 931	931	61	1	1	0	169.3	68.4	23.9	0	0	129
## 932	932	60	1	3	0	165.0	73.5	27.0	0	0	129
## 933	933	55	1	1	0	158.5	83.1	33.0	0	0	128
## 934	934	52	1	3	0	170.6	68.9	23.7	0	0	121
## 935	935	60	0	1	2	169.3	72.6	25.3	1	0	137
## 936	936	62	1	1	0	167.4	78.8	28.1	1	0	140
## 937	937	54	1	1	2	158.1	73.0	29.2	1	0	131
## 938	938	53	1	1	0	169.3	89.4	31.2	0	0	117
## 939	939	62	0	2	1	162.4	73.1	27.7	1	1	133
## 940	940	62	1	4	1	174.1	83.6	27.6	0	0	124
## 941	941	63	1	1	1	171.7	80.7	27.4	0	0	115
## 942	942	69	0	2	0	172.6	79.9	26.8	1	1	138
## 943	943	51	1	3	1	168.6	78.3	27.5	0	0	128
## 944	944	60	0	1	0	170.3	67.1	23.1	1	0	131
## 945	945	61	1	3	0	168.6	92.1	32.4	1	0	131
## 946	946	60	1	1	0	163.0	73.3	27.6	1	0	131
## 947	947	66	0	1	0	169.2	84.9	29.7	1	0	137
## 948	948	61	0	4	0	173.1	78.4	26.1	0	0	128
## 949	949	57	1	1	0	185.5	76.3	22.2	0	0	118
## 950	950	63	0	1	0	174.1	80.7	26.6	1	0	131
## 951	951	57	0	1	0	169.1	75.0	26.2	0	0	117
## 952	952	53	1	1	0	169.9	85.7	29.7	1	0	143
## 953	953	59	0	1	1	163.2	70.4	26.4	0	0	122
## 954	954	63	1	4	0	175.4	88.7	28.8	1	0	131
## 955	955	58	0	1	0	169.8	87.1	30.2	1	1	137
## 956	956	64	1	1	0	163.1	80.8	30.4	1	0	134
## 957	957	65	0	3	0	177.3	75.2	23.9	0	0	126
## 958	958	59	0	1	0	172.7	64.0	21.4	1	0	139

## 959	959	58	0	3	0	158.5	80.9	32.2	0	0 122
## 960	960	50	0	1	0	169.7	88.6	30.8	0	0 123
## 961	961	62	0	3	0	178.7	74.0	23.2	1	0 143
## 962	962	64	1	3	0	176.1	100.0	32.2	0	0 127
## 963	963	62	1	2	2	167.7	98.3	35.0	0	0 121
## 964	964	56	1	1	0	165.5	78.0	28.5	0	0 118
## 965	965	60	0	1	1	162.6	75.1	28.4	1	0 137
## 966	966	58	1	1	0	171.5	74.5	25.3	1	1 134
## 967	967	56	0	1	1	174.7	96.4	31.6	0	1 126
## 968	968	62	1	1	1	172.0	80.2	27.1	1	0 137
## 969	969	64	1	1	0	170.5	77.2	26.6	1	1 132
## 970	970	57	0	1	1	174.3	84.4	27.8	0	0 120
## 971	971	69	0	1	0	179.2	85.2	26.5	1	1 140
## 972	972	62	1	1	0	168.4	82.6	29.2	1	0 137
## 973	973	57	0	1	0	167.9	86.5	30.7	0	0 121
## 974	974	63	1	1	0	163.0	80.1	30.2	0	0 126
## 975	975	61	1	3	0	181.5	69.4	21.1	1	0 136
## 976	976	63	1	1	1	172.9	95.4	31.9	1	0 135
## 977	977	55	0	1	0	177.7	80.6	25.5	0	0 117
## 978	978	52	1	1	1	163.2	88.9	33.4	0	0 116
## 979	979	53	0	1	1	174.1	75.5	24.9	0	0 127
## 980	980	65	1	1	0	176.9	91.6	29.3	1	0 140
## 981	981	53	1	3	0	170.8	74.6	25.6	1	0 132
## 982	982	61	0	1	2	164.5	78.9	29.1	1	0 136
## 983	983	64	1	1	1	176.3	72.2	23.3	0	0 123
## 984	984	59	0	2	0	160.9	74.8	28.9	0	0 120
## 985	985	68	1	1	1	165.1	70.6	25.9	1	0 141
## 986	986	56	0	1	1	173.6	82.0	27.2	1	0 139
## 987	987	58	0	1	0	177.1	78.6	25.1	1	0 138
## 988	988	63	1	3	0	171.1	74.5	25.5	0	0 127
## 989	989	59	1	1	2	159.5	81.1	31.9	0	0 128
## 990	990	59	0	1	0	161.1	70.2	27.1	1	0 139
## 991	991	67	0	1	0	168.6	70.7	24.9	1	0 133
## 992	992	58	1	4	0	160.0	73.4	28.7	0	0 116
## 993	993	57	0	4	0	166.4	74.3	26.8	0	1 121
## 994	994	66	0	1	1	166.2	87.1	31.5	1	0 138
## 995	995	68	0	1	0	154.5	79.8	33.4	1	0 142
## 996	996	58	0	1	0	162.8	65.1	24.6	0	1 128
## 997	997	55	0	2	0	165.2	72.3	26.5	1	1 135
## 998	998	63	1	1	2	176.2	75.0	24.2	0	0 126
## 999	999	58	1	1	1	176.3	78.6	25.3	0	1 119
## 1000	1000	70	0	1	2	165.2	81.9	30.0	1	1 137
## 1001	1001	59	0	4	2	172.9	87.9	29.4	1	1 137
## 1002	1002	57	0	1	0	171.6	77.7	26.4	1	0 141
## 1003	1003	62	1	4	0	175.4	75.5	24.5	0	0 129
## 1004	1004	57	0	1	0	176.4	77.7	25.0	0	1 118
## 1005	1005	66	0	1	0	176.1	69.6	22.4	1	0 143
## 1006	1006	60	0	1	0	175.3	76.3	24.8	0	0 130
## 1007	1007	61	0	1	0	162.4	77.5	29.4	1	0 134
## 1008	1008	55	1	1	0	169.0	79.5	27.8	0	0 129
## 1009	1009	63	1	1	0	166.6	92.1	33.2	0	0 124
## 1010	1010	63	0	4	1	178.1	77.9	24.6	1	0 133
## 1011	1011	59	1	1	1	174.3	84.1	27.7	0	1 130
## 1012	1012	64	0	1	0	170.8	90.4	31.0	1	0 133

##	1013	1013	54	0	1	0	181.9	83.7	25.3	0	0	115
##	1014	1014	62	0	1	0	178.2	82.0	25.8	0	1	126
##	1015	1015	58	1	1	2	170.7	81.6	28.0	0	0	127
##	1016	1016	51	0	1	2	158.5	70.5	28.0	0	0	121
##	1017	1017	56	0	4	0	170.4	84.7	29.2	0	0	130
##	1018	1018	50	0	3	0	174.0	70.7	23.4	0	0	126
##	1019	1019	51	1	1	1	178.6	84.3	26.4	0	0	117
##	1020	1020	58	0	1	0	173.7	77.6	25.7	0	0	122
##	1021	1021	62	0	4	2	177.7	88.4	28.0	0	0	125
##	1022	1022	65	1	1	1	160.1	77.1	30.1	0	0	129
##	1023	1023	59	1	1	0	171.6	71.8	24.4	0	0	130
##	1024	1024	59	0	1	2	167.7	79.8	28.4	0	1	126
##	1025	1025	57	0	4	1	177.0	87.8	28.0	0	0	123
##	1026	1026	60	1	1	1	165.3	79.8	29.2	1	0	131
##	1027	1027	62	1	1	0	166.0	84.7	30.7	1	1	136
##	1028	1028	59	0	1	1	171.2	86.7	29.6	1	1	141
##	1029	1029	71	1	1	0	173.5	80.4	26.7	1	1	137
##	1030	1030	61	1	1	2	166.8	85.2	30.6	1	1	139
##	1031	1031	50	1	4	0	175.2	75.0	24.4	0	0	130
##	1032	1032	54	0	1	0	176.2	92.3	29.7	1	0	132
##	1033	1033	64	1	3	0	167.2	86.3	30.9	1	0	132
##	1034	1034	52	1	2	1	165.6	68.0	24.8	0	0	125
##	1035	1035	67	1	4	2	180.4	79.3	24.3	1	0	140
##	1036	1036	65	1	1	0	168.6	87.4	30.7	1	0	139
##	1037	1037	67	0	1	0	168.6	75.0	26.4	1	0	131
##	1038	1038	59	0	1	0	183.1	93.1	27.8	1	0	151
##	1039	1039	61	1	1	1	175.4	92.4	30.0	1	0	144
##	1040	1040	60	0	3	1	176.7	79.2	25.4	0	0	117
##	1041	1041	56	1	3	1	172.0	75.2	25.4	0	0	128
##	1042	1042	62	1	1	1	163.3	80.8	30.3	1	1	138
##	1043	1043	61	1	1	0	164.3	84.5	31.3	0	0	116
##	1044	1044	63	1	3	0	184.7	90.3	26.5	1	0	132
##	1045	1045	61	1	3	1	172.9	83.4	27.9	1	0	142
##	1046	1046	56	0	3	0	175.2	83.8	27.3	1	0	140
##	1047	1047	54	1	1	0	175.8	84.6	27.4	0	0	125
##	1048	1048	61	1	4	0	173.3	78.2	26.0	0	0	124
##	1049	1049	66	0	1	0	177.2	81.2	25.9	0	0	121
##	1050	1050	61	1	4	0	169.2	77.4	27.0	1	0	133
##	1051	1051	62	1	1	0	171.2	85.6	29.2	1	1	140
##	1052	1052	59	0	1	0	167.4	82.3	29.4	0	0	125
##	1053	1053	60	1	3	1	178.0	81.9	25.9	0	0	114
##	1054	1054	68	1	1	0	173.5	68.7	22.8	0	0	125
##	1055	1055	71	0	1	0	171.4	89.3	30.4	1	0	135
##	1056	1056	52	0	1	0	174.7	89.9	29.5	0	0	124
##	1057	1057	56	1	1	0	182.6	75.9	22.8	0	0	123
##	1058	1058	65	0	1	0	175.2	81.0	26.4	0	0	125
##	1059	1059	56	1	1	0	170.5	79.8	27.4	1	1	134
##	1060	1060	55	0	1	0	172.1	77.3	26.1	0	0	127
##	1061	1061	66	0	3	0	169.5	66.4	23.1	1	0	142
##	1062	1062	56	0	1	1	167.6	78.1	27.8	0	0	127
##	1063	1063	51	0	1	0	167.6	81.2	28.9	0	1	124
##	1064	1064	53	0	1	0	167.9	85.1	30.2	0	0	120
##	1065	1065	65	1	1	0	168.7	85.3	30.0	1	1	140
##	1066	1066	59	1	2	0	161.8	80.7	30.8	0	0	124

## 1067	1067	57	1	1	0	169.1	80.9	28.3	0	0	126
## 1068	1068	56	1	1	0	171.8	85.9	29.1	0	1	126
## 1069	1069	69	0	1	1	171.6	83.9	28.5	1	0	142
## 1070	1070	62	1	1	2	172.4	85.2	28.7	1	0	134
## 1071	1071	60	0	1	0	171.4	83.2	28.3	0	0	121
## 1072	1072	65	1	1	0	165.5	82.4	30.1	1	0	133
## 1073	1073	64	1	1	1	166.4	75.5	27.3	0	0	117
## 1074	1074	53	0	1	2	176.6	83.1	26.7	0	1	115
## 1075	1075	61	0	3	0	166.8	75.7	27.2	0	0	126
## 1076	1076	60	1	1	0	155.9	65.2	26.8	1	1	140
## 1077	1077	74	1	3	0	164.7	71.0	26.2	0	0	127
## 1078	1078	68	0	1	0	169.9	72.7	25.2	1	0	145
## 1079	1079	63	1	1	0	176.8	77.6	24.8	0	1	126
## 1080	1080	63	0	1	1	167.7	76.7	27.3	0	0	128
## 1081	1081	55	1	1	0	173.2	80.2	26.7	0	0	112
## 1082	1082	61	0	1	1	171.1	77.7	26.5	1	0	134
## 1083	1083	57	0	1	0	183.2	88.5	26.4	1	0	132
## 1084	1084	60	0	1	0	164.9	87.6	32.2	1	0	136
## 1085	1085	60	0	1	0	162.4	78.4	29.7	0	0	122
## 1086	1086	67	1	1	0	171.8	85.8	29.1	1	0	133
## 1087	1087	62	1	1	0	159.9	78.9	30.9	0	0	122
## 1088	1088	62	1	4	1	161.8	72.2	27.6	1	1	137
## 1089	1089	57	0	1	0	158.3	71.0	28.3	0	1	124
## 1090	1090	61	0	1	0	167.5	84.9	30.3	0	1	120
## 1091	1091	59	1	1	0	169.6	103.7	36.1	0	0	129
## 1092	1092	56	0	2	0	160.0	78.5	30.7	0	1	125
## 1093	1093	61	0	1	1	177.9	74.6	23.6	1	0	145
## 1094	1094	57	1	3	0	166.1	75.5	27.4	1	0	136
## 1095	1095	64	0	1	0	170.2	84.3	29.1	0	0	124
## 1096	1096	52	0	3	1	172.5	76.5	25.7	0	1	122
## 1097	1097	64	0	1	0	169.9	78.5	27.2	1	0	134
## 1098	1098	60	0	3	0	170.8	80.9	27.7	0	0	123
## 1099	1099	67	1	2	0	169.9	81.8	28.3	1	0	131
## 1100	1100	64	1	3	1	179.7	80.5	24.9	1	1	133
## 1101	1101	63	1	2	0	169.7	74.1	25.7	1	0	139
## 1102	1102	57	0	1	0	165.8	69.5	25.3	1	0	131
## 1103	1103	65	1	1	1	165.4	85.7	31.3	0	0	125
## 1104	1104	70	0	4	1	166.9	66.8	24.0	1	1	142
## 1105	1105	58	1	3	2	177.9	76.8	24.3	0	0	122
## 1106	1106	53	0	1	0	166.0	80.9	29.3	0	1	122
## 1107	1107	53	1	2	0	175.6	71.1	23.1	1	0	131
## 1108	1108	56	1	1	0	164.7	89.8	33.1	0	0	127
## 1109	1109	65	0	1	0	167.3	77.3	27.6	1	1	141
## 1110	1110	57	0	1	0	164.1	87.7	32.6	0	0	114
## 1111	1111	62	1	1	0	171.2	77.4	26.4	1	0	137
## 1112	1112	58	1	1	1	174.0	99.9	33.0	0	1	127
## 1113	1113	65	0	1	1	174.3	88.9	29.2	1	0	133
## 1114	1114	63	0	3	0	166.2	96.9	35.1	0	1	124
## 1115	1115	61	1	1	0	170.1	73.3	25.3	1	1	148
## 1116	1116	66	0	1	0	160.7	83.0	32.1	1	0	133
## 1117	1117	59	1	1	0	174.3	79.0	26.0	0	0	122
## 1118	1118	63	0	1	1	161.1	79.6	30.7	1	0	134
## 1119	1119	58	1	1	1	165.5	86.4	31.6	0	0	125
## 1120	1120	57	1	1	0	166.1	81.7	29.6	0	0	127

##	1121	1121	57	1	1	1	167.8	80.0	28.4	0	0	120
##	1122	1122	53	0	3	0	168.0	72.7	25.8	0	0	127
##	1123	1123	57	0	1	1	165.1	92.2	33.8	0	0	125
##	1124	1124	59	0	2	0	174.8	80.8	26.5	0	0	123
##	1125	1125	59	1	3	1	175.2	91.2	29.7	1	1	131
##	1126	1126	55	0	3	0	175.5	86.4	28.0	0	0	130
##	1127	1127	66	0	1	0	178.3	98.8	31.1	1	0	134
##	1128	1128	56	0	1	0	167.7	82.2	29.2	1	0	132
##	1129	1129	64	0	1	1	164.2	73.1	27.1	1	0	132
##	1130	1130	61	0	2	1	165.6	69.6	25.4	0	0	126
##	1131	1131	69	1	1	0	176.3	77.2	24.8	1	0	139
##	1132	1132	62	1	3	0	171.5	91.3	31.1	1	0	131
##	1133	1133	63	1	1	0	169.9	76.5	26.5	1	0	144
##	1134	1134	61	1	1	1	176.9	76.1	24.3	0	0	127
##	1135	1135	64	1	1	0	160.9	83.2	32.1	1	0	138
##	1136	1136	55	1	1	1	171.2	84.7	28.9	0	0	129
##	1137	1137	59	1	1	2	174.7	82.2	26.9	1	0	135
##	1138	1138	55	0	1	1	162.5	75.0	28.4	0	0	120
##	1139	1139	56	0	1	0	171.7	65.5	22.2	0	0	129
##	1140	1140	53	0	1	0	179.4	79.4	24.7	1	0	131
##	1141	1141	61	1	3	0	171.4	78.9	26.9	0	1	129
##	1142	1142	62	1	3	0	161.5	71.8	27.5	1	1	145
##	1143	1143	67	1	1	0	165.4	84.0	30.7	1	0	135
##	1144	1144	58	1	1	1	165.3	70.5	25.8	0	0	129
##	1145	1145	58	1	1	0	172.3	77.9	26.2	1	0	137
##	1146	1146	59	1	1	1	164.6	76.5	28.2	0	0	129
##	1147	1147	67	0	1	0	170.5	80.1	27.6	1	0	141
##	1148	1148	67	1	2	1	177.6	78.2	24.8	1	1	134
##	1149	1149	53	1	1	2	181.9	90.7	27.4	0	0	129
##	1150	1150	64	1	1	0	166.0	86.4	31.4	1	0	145
##	1151	1151	56	0	3	1	168.0	68.4	24.3	1	0	135
##	1152	1152	72	0	3	0	176.1	81.9	26.4	1	0	144
##	1153	1153	69	1	1	1	180.4	100.2	30.8	1	0	132
##	1154	1154	65	0	1	1	173.7	76.8	25.5	1	0	139
##	1155	1155	64	1	3	0	164.0	87.8	32.6	1	0	136
##	1156	1156	70	0	2	0	166.7	70.8	25.5	0	1	128
##	1157	1157	60	1	1	2	169.6	81.0	28.1	0	0	130
##	1158	1158	66	1	3	1	180.4	84.7	26.1	1	0	137
##	1159	1159	64	1	1	0	177.2	89.6	28.5	1	1	137
##	1160	1160	53	1	4	0	173.4	91.3	30.4	0	0	123
##	1161	1161	61	0	1	1	167.3	83.8	29.9	1	0	134
##	1162	1162	68	0	1	2	173.5	81.3	27.0	1	0	142
##	1163	1163	57	1	1	1	169.2	87.7	30.6	0	1	122
##	1164	1164	53	1	1	0	166.6	79.9	28.8	1	0	136
##	1165	1165	61	0	1	0	162.8	94.3	35.6	1	0	135
##	1166	1166	61	0	1	2	162.7	72.9	27.5	0	0	125
##	1167	1167	65	1	1	0	167.8	77.7	27.6	0	0	127
##	1168	1168	65	0	1	0	169.6	80.1	27.8	1	0	137
##	1169	1169	65	0	1	1	162.9	75.0	28.2	0	0	127
##	1170	1170	57	0	4	2	168.1	71.3	25.2	0	0	121
##	1171	1171	55	0	1	0	161.9	81.3	31.0	0	0	123
##	1172	1172	56	1	1	0	156.1	82.6	33.9	0	0	126
##	1173	1173	63	0	1	0	165.6	85.3	31.1	1	0	132
##	1174	1174	58	1	1	0	186.0	84.1	24.3	0	0	126

## 1175	1175	65	0	2	0	174.7	96.8	31.7	0	0	125
## 1176	1176	48	0	4	0	168.8	77.0	27.0	0	0	124
## 1177	1177	60	0	3	1	166.2	71.0	25.7	1	1	136
## 1178	1178	55	0	1	0	174.9	87.6	28.6	0	0	120
## 1179	1179	64	1	4	2	166.2	78.4	28.4	1	0	131
## 1180	1180	57	0	4	0	168.2	69.8	24.7	1	1	136
## 1181	1181	57	0	1	1	153.7	73.4	31.1	1	0	138
## 1182	1182	58	0	1	0	170.7	80.8	27.7	1	0	139
## 1183	1183	63	1	1	1	173.8	82.5	27.3	1	0	138
## 1184	1184	63	0	3	0	169.4	87.2	30.4	1	0	131
## 1185	1185	53	0	3	0	166.1	80.6	29.2	0	0	114
## 1186	1186	61	1	1	1	160.2	76.2	29.7	1	0	142
## 1187	1187	60	0	4	0	164.6	74.2	27.4	1	0	131
## 1188	1188	64	1	2	0	168.8	87.2	30.6	1	0	132
## 1189	1189	60	1	3	2	181.0	78.0	23.8	0	0	130
## 1190	1190	59	1	1	0	171.2	97.1	33.1	1	0	138
## 1191	1191	59	0	1	1	169.0	76.3	26.7	0	0	119
## 1192	1192	58	0	1	2	166.1	81.3	29.5	0	0	123
## 1193	1193	58	1	1	0	163.8	86.1	32.1	0	0	123
## 1194	1194	61	1	1	0	168.6	68.2	24.0	0	0	121
## 1195	1195	60	0	1	1	161.0	71.1	27.4	0	0	127
## 1196	1196	60	1	1	0	177.3	75.2	23.9	0	0	122
## 1197	1197	59	0	3	0	170.1	78.5	27.1	1	0	131
## 1198	1198	53	0	3	0	170.9	74.8	25.6	0	0	128
## 1199	1199	58	0	3	1	165.7	83.2	30.3	1	0	138
## 1200	1200	56	0	1	0	158.4	74.7	29.8	1	0	131
## 1201	1201	60	0	1	0	162.4	67.1	25.4	0	0	125
## 1202	1202	51	0	3	0	177.8	91.8	29.1	0	0	122
## 1203	1203	55	0	3	1	172.7	81.5	27.3	0	0	118
## 1204	1204	61	1	3	0	170.6	77.1	26.5	0	0	127
## 1205	1205	64	0	1	1	159.7	86.2	33.8	1	0	153
## 1206	1206	55	0	1	0	173.9	76.6	25.3	0	0	129
## 1207	1207	60	0	1	2	180.0	82.4	25.4	1	0	135
## 1208	1208	63	1	1	1	179.3	80.6	25.1	0	0	125
## 1209	1209	55	1	1	1	165.5	70.9	25.9	1	0	132
## 1210	1210	56	0	3	2	176.7	75.7	24.2	0	0	130
## 1211	1211	66	1	1	0	169.3	73.8	25.7	1	0	139
## 1212	1212	61	1	2	0	166.4	72.1	26.0	0	0	119
## 1213	1213	60	1	1	0	164.1	79.5	29.5	1	0	145
## 1214	1214	63	1	1	0	168.0	79.1	28.0	1	0	141
## 1215	1215	59	1	1	1	158.9	77.2	30.6	0	0	112
## 1216	1216	62	1	3	2	172.1	83.5	28.2	0	0	126
## 1217	1217	52	1	2	1	170.9	80.1	27.4	0	1	128
## 1218	1218	64	0	1	0	175.9	85.4	27.6	1	0	150
## 1219	1219	56	0	4	1	172.1	82.6	27.9	0	0	128
## 1220	1220	60	0	1	2	168.1	78.7	27.9	1	0	131
## 1221	1221	63	0	3	1	176.3	73.0	23.5	1	0	135
## 1222	1222	58	1	1	0	167.6	71.1	25.3	0	0	127
## 1223	1223	60	0	1	0	162.9	85.9	32.4	0	1	128
## 1224	1224	63	1	1	0	164.2	80.8	30.0	1	0	135
## 1225	1225	58	1	1	1	175.5	74.2	24.1	0	0	118
## 1226	1226	56	1	3	1	168.3	82.8	29.2	1	0	134
## 1227	1227	62	1	1	1	165.0	71.7	26.3	1	1	142
## 1228	1228	60	1	1	0	172.7	85.9	28.8	0	0	127

##	1229	1229	66	1	1	0	167.2	78.7	28.1	1	0	136
##	1230	1230	59	0	1	0	170.7	89.3	30.7	0	1	113
##	1231	1231	66	0	1	0	169.0	79.7	27.9	1	0	150
##	1232	1232	62	1	1	0	174.7	87.2	28.6	0	0	125
##	1233	1233	59	1	1	0	165.6	89.0	32.4	0	0	118
##	1234	1234	59	0	4	1	167.8	91.7	32.6	1	0	134
##	1235	1235	66	0	4	0	175.3	78.2	25.5	1	0	142
##	1236	1236	57	1	3	1	159.7	79.4	31.2	0	0	121
##	1237	1237	61	0	1	0	175.1	83.5	27.2	1	0	136
##	1238	1238	55	1	1	1	171.0	89.7	30.7	0	0	123
##	1239	1239	65	1	1	0	171.4	83.0	28.3	1	0	134
##	1240	1240	59	1	1	1	165.0	72.0	26.4	1	0	136
##	1241	1241	53	0	1	1	164.4	77.8	28.8	0	0	124
##	1242	1242	54	1	3	2	170.9	92.0	31.5	1	0	136
##	1243	1243	61	1	1	1	174.5	75.2	24.7	0	1	127
##	1244	1244	60	1	1	0	173.2	73.4	24.5	1	0	138
##	1245	1245	66	1	1	2	168.4	75.6	26.7	1	0	136
##	1246	1246	54	1	1	0	171.1	91.0	31.1	0	1	126
##	1247	1247	56	1	1	0	176.7	96.6	30.9	1	0	131
##	1248	1248	62	0	3	0	162.3	79.4	30.2	1	0	134
##	1249	1249	54	1	1	0	171.6	91.1	30.9	0	1	119
##	1250	1250	57	0	3	0	160.7	79.5	30.8	1	0	142
##	1251	1251	59	1	1	0	171.5	77.2	26.2	1	0	140
##	1252	1252	49	1	4	0	175.3	88.3	28.7	0	0	124
##	1253	1253	57	0	3	0	169.8	81.1	28.1	0	0	124
##	1254	1254	59	0	4	1	173.7	91.2	30.2	1	0	139
##	1255	1255	54	0	1	0	165.8	79.7	29.0	0	0	117
##	1256	1256	56	1	1	0	167.5	76.9	27.4	1	1	135
##	1257	1257	67	1	1	1	168.7	77.4	27.2	1	0	137
##	1258	1258	63	1	4	0	172.3	75.7	25.5	1	0	140
##	1259	1259	64	0	1	0	167.3	77.3	27.6	1	0	132
##	1260	1260	67	1	3	0	164.7	85.5	31.5	1	0	137
##	1261	1261	62	0	1	0	177.2	81.3	25.9	1	1	154
##	1262	1262	64	1	1	0	172.3	74.1	25.0	1	0	131
##	1263	1263	62	1	1	0	160.1	79.2	30.9	0	0	126
##	1264	1264	62	0	2	2	169.1	83.0	29.0	0	0	129
##	1265	1265	64	0	1	0	170.8	86.1	29.5	1	0	136
##	1266	1266	56	1	3	0	173.8	84.4	27.9	1	0	132
##	1267	1267	56	1	1	1	172.1	76.3	25.8	0	0	125
##	1268	1268	68	0	1	0	168.7	73.8	25.9	0	0	128
##	1269	1269	62	1	1	0	175.1	78.4	25.6	1	0	131
##	1270	1270	59	1	3	0	172.2	74.4	25.1	0	0	118
##	1271	1271	70	0	1	1	177.4	91.7	29.1	1	0	144
##	1272	1272	61	0	1	0	166.6	84.3	30.3	1	0	141
##	1273	1273	62	1	4	1	173.1	73.6	24.6	0	0	127
##	1274	1274	61	1	2	1	176.3	90.9	29.3	1	0	137
##	1275	1275	54	0	1	0	173.4	77.4	25.7	0	0	125
##	1276	1276	48	1	1	0	170.3	88.1	30.4	0	1	117
##	1277	1277	53	0	3	1	168.3	77.4	27.3	0	0	122
##	1278	1278	57	0	4	0	157.1	74.9	30.4	0	0	124
##	1279	1279	61	1	1	0	165.1	77.2	28.3	1	0	142
##	1280	1280	64	1	1	1	178.1	92.3	29.1	0	0	126
##	1281	1281	51	0	3	0	175.0	74.6	24.3	0	0	119
##	1282	1282	50	0	1	1	186.1	87.7	25.3	0	0	126

##	1283	1283	60	0	3	1	171.4	79.0	26.9	0	1	130
##	1284	1284	61	0	2	0	161.8	84.4	32.2	0	0	119
##	1285	1285	57	0	1	0	165.0	72.3	26.5	0	1	125
##	1286	1286	62	0	1	2	169.9	80.4	27.9	0	0	127
##	1287	1287	63	0	1	0	177.2	61.7	19.7	1	0	140
##	1288	1288	51	1	1	0	170.0	77.9	26.9	0	0	126
##	1289	1289	63	0	1	0	165.7	80.3	29.3	1	0	133
##	1290	1290	61	0	1	0	165.4	79.2	29.0	1	0	132
##	1291	1291	64	1	1	1	173.0	84.8	28.3	0	0	124
##	1292	1292	58	1	1	0	162.6	74.8	28.3	0	1	123
##	1293	1293	64	0	4	1	175.7	80.6	26.1	1	1	142
##	1294	1294	61	1	1	0	175.9	90.9	29.4	1	0	136
##	1295	1295	55	1	1	0	169.8	74.2	25.7	1	0	131
##	1296	1296	62	1	3	0	170.2	88.4	30.5	1	0	143
##	1297	1297	61	0	4	0	172.8	69.5	23.3	1	0	132
##	1298	1298	57	1	1	1	169.2	85.9	30.0	1	0	132
##	1299	1299	57	0	1	1	156.5	81.1	33.1	0	0	122
##	1300	1300	57	1	1	1	177.5	70.4	22.4	0	0	126
##	1301	1301	61	1	1	0	173.4	85.9	28.6	0	0	128
##	1302	1302	60	0	1	1	171.0	85.8	29.4	0	0	119
##	1303	1303	64	1	1	0	170.0	81.3	28.1	1	0	131
##	1304	1304	71	0	1	0	168.0	80.5	28.5	1	0	136
##	1305	1305	67	1	3	1	167.5	94.0	33.5	0	0	126
##	1306	1306	66	1	1	0	165.6	80.2	29.2	1	0	136
##	1307	1307	54	0	1	0	178.3	89.4	28.1	0	0	125
##	1308	1308	61	0	1	2	169.1	91.7	32.1	1	0	135
##	1309	1309	56	1	3	0	170.2	79.4	27.4	0	0	125
##	1310	1310	62	1	4	0	152.8	60.2	25.8	0	0	127
##	1311	1311	72	1	1	0	165.2	79.9	29.3	1	0	143
##	1312	1312	59	0	1	0	179.2	82.8	25.8	0	1	127
##	1313	1313	62	0	1	0	182.6	83.5	25.0	0	0	130
##	1314	1314	65	1	3	1	163.1	87.6	32.9	1	0	132
##	1315	1315	54	0	1	1	166.4	81.7	29.5	1	0	132
##	1316	1316	62	1	3	0	180.7	89.8	27.5	1	0	134
##	1317	1317	57	0	1	1	186.1	91.1	26.3	0	0	127
##	1318	1318	58	0	4	2	165.0	82.1	30.2	1	0	132
##	1319	1319	58	0	1	1	171.5	77.5	26.3	1	1	137
##	1320	1320	59	0	3	0	172.1	73.4	24.8	1	1	131
##	1321	1321	57	0	4	0	167.4	70.9	25.3	1	0	133
##	1322	1322	61	1	1	0	170.8	78.5	26.9	1	0	132
##	1323	1323	57	1	3	2	169.0	85.4	29.9	1	0	142
##	1324	1324	49	0	1	0	174.4	68.7	22.6	0	0	105
##	1325	1325	54	1	1	0	178.8	78.3	24.5	0	0	121
##	1326	1326	51	1	1	2	172.8	89.8	30.1	0	0	123
##	1327	1327	60	0	1	0	175.9	77.4	25.0	1	0	140
##	1328	1328	62	0	1	0	163.3	74.3	27.8	1	0	131
##	1329	1329	61	1	1	1	174.9	82.2	26.9	0	0	130
##	1330	1330	59	0	1	0	157.8	87.9	35.3	0	0	123
##	1331	1331	69	0	1	1	180.5	79.7	24.5	1	0	134
##	1332	1332	58	1	3	0	173.0	76.3	25.5	1	0	136
##	1333	1333	59	1	3	1	186.1	93.9	27.1	0	0	129
##	1334	1334	60	0	2	0	175.9	84.4	27.3	0	1	124
##	1335	1335	60	0	1	2	166.2	90.2	32.6	1	0	132
##	1336	1336	58	0	1	0	159.1	86.7	34.2	0	1	123

## 1337	1337	60	0	1	0	172.4	78.9	26.5	0	0	128
## 1338	1338	58	1	1	0	167.7	81.4	28.9	0	0	127
## 1339	1339	57	1	1	0	174.6	68.4	22.4	1	1	131
## 1340	1340	64	0	3	0	164.2	75.3	27.9	0	0	126
## 1341	1341	64	0	1	0	174.9	82.0	26.8	1	0	135
## 1342	1342	62	0	4	0	177.4	79.3	25.2	0	0	128
## 1343	1343	51	1	1	0	178.5	81.0	25.4	0	0	118
## 1344	1344	60	1	3	1	159.5	75.9	29.8	1	0	155
## 1345	1345	53	0	1	0	188.3	81.3	22.9	1	0	132
## 1346	1346	62	1	1	0	155.7	72.7	30.0	0	0	126
## 1347	1347	65	1	1	0	166.6	77.3	27.9	1	0	138
## 1348	1348	58	1	1	1	158.6	73.3	29.1	0	0	128
## 1349	1349	52	0	1	0	176.1	93.0	30.0	0	0	122
## 1350	1350	53	0	1	0	171.3	84.8	28.9	0	0	125
## 1351	1351	58	0	4	0	170.1	70.3	24.3	0	1	120
## 1352	1352	57	0	3	1	162.8	69.2	26.1	1	0	138
## 1353	1353	64	0	1	1	161.8	79.4	30.3	0	1	121
## 1354	1354	56	0	1	0	159.0	84.4	33.4	1	0	133
## 1355	1355	60	1	1	0	174.1	81.1	26.8	1	0	133
## 1356	1356	63	0	4	0	172.9	78.8	26.4	0	0	126
## 1357	1357	64	0	1	0	162.8	69.6	26.3	1	1	133
## 1358	1358	57	0	3	2	172.5	82.6	27.7	0	0	128
## 1359	1359	65	0	4	1	176.8	94.6	30.3	1	0	136
## 1360	1360	60	0	3	1	167.9	76.7	27.2	1	0	131
## 1361	1361	54	0	1	2	170.0	77.2	26.7	0	0	118
## 1362	1362	67	0	1	1	171.4	82.1	28.0	1	1	141
## 1363	1363	56	1	1	0	175.2	83.2	27.1	0	0	122
## 1364	1364	57	0	3	1	163.7	74.2	27.7	0	0	110
## 1365	1365	59	1	1	0	174.8	74.3	24.3	1	0	137
## 1366	1366	54	0	1	0	168.5	70.4	24.8	0	0	128
## 1367	1367	62	0	1	1	165.9	87.9	31.9	0	0	127
## 1368	1368	63	1	1	1	168.1	87.1	30.8	1	0	133
## 1369	1369	66	0	1	0	174.3	77.8	25.6	0	0	127
## 1370	1370	60	0	1	1	171.0	74.1	25.3	0	0	128
## 1371	1371	65	1	3	2	167.6	77.7	27.7	0	0	128
## 1372	1372	51	0	1	0	154.1	61.5	25.9	0	0	119
## 1373	1373	54	0	1	0	167.5	65.8	23.4	0	0	130
## 1374	1374	58	0	4	0	169.8	72.9	25.3	0	0	121
## 1375	1375	59	0	1	0	173.7	78.8	26.1	0	1	128
## 1376	1376	52	1	1	0	172.6	85.6	28.7	1	0	132
## 1377	1377	58	0	3	1	169.0	66.5	23.3	0	0	129
## 1378	1378	56	0	4	1	178.0	78.9	24.9	0	1	121
## 1379	1379	61	0	1	0	165.2	69.7	25.6	0	0	129
## 1380	1380	55	0	3	1	171.9	78.5	26.6	0	1	127
## 1381	1381	57	1	1	2	164.8	76.2	28.0	0	1	128
## 1382	1382	63	0	2	0	167.9	74.5	26.4	1	0	140
## 1383	1383	63	0	1	0	157.4	80.2	32.4	1	0	137
## 1384	1384	57	1	4	0	172.3	86.5	29.1	1	0	133
## 1385	1385	57	1	1	0	174.1	76.6	25.3	0	0	116
## 1386	1386	57	1	1	0	177.4	82.9	26.3	1	1	132
## 1387	1387	59	0	1	1	172.7	86.9	29.2	0	0	112
## 1388	1388	62	1	1	1	178.9	98.6	30.8	1	0	131
## 1389	1389	67	1	3	1	173.7	73.1	24.2	0	0	128
## 1390	1390	61	1	3	0	160.6	79.3	30.7	1	0	133

##	1391	1391	57	0	1	1	171.0	76.0	26.0	0	0	128
##	1392	1392	57	0	2	0	169.2	76.7	26.8	0	1	126
##	1393	1393	57	0	1	1	163.5	67.3	25.2	0	0	119
##	1394	1394	64	0	1	1	174.6	76.4	25.1	1	0	141
##	1395	1395	65	0	1	1	166.6	75.3	27.1	1	0	137
##	1396	1396	58	1	2	2	171.6	77.8	26.4	0	0	121
##	1397	1397	60	1	2	1	163.1	83.1	31.2	0	0	130
##	1398	1398	62	0	1	0	174.4	78.6	25.8	1	0	145
##	1399	1399	66	1	1	2	171.3	85.5	29.1	1	0	131
##	1400	1400	60	0	1	0	166.7	81.6	29.4	0	1	128
##	1401	1401	62	1	3	0	160.3	79.2	30.8	1	0	137
##	1402	1402	60	0	1	1	170.4	79.8	27.5	1	0	134
##	1403	1403	53	1	1	0	171.5	91.8	31.2	1	0	135
##	1404	1404	60	0	1	1	182.4	93.7	28.2	0	0	130
##	1405	1405	59	0	1	0	163.9	75.2	28.0	1	1	151
##	1406	1406	67	1	3	1	167.8	78.5	27.9	1	0	134
##	1407	1407	63	1	1	0	167.8	74.2	26.3	0	1	120
##	1408	1408	62	0	4	1	170.7	85.9	29.5	1	0	154
##	1409	1409	65	1	1	0	174.8	86.5	28.3	1	0	140
##	1410	1410	61	0	1	1	171.0	78.4	26.8	1	0	132
##	1411	1411	59	1	2	0	166.5	81.8	29.5	1	0	141
##	1412	1412	55	1	1	2	174.1	80.6	26.6	0	0	121
##	1413	1413	63	1	1	0	163.6	66.2	24.7	0	0	129
##	1414	1414	53	1	1	0	174.1	73.0	24.1	0	0	117
##	1415	1415	59	0	2	2	174.2	88.9	29.3	1	0	138
##	1416	1416	63	0	2	0	172.7	96.4	32.3	0	1	129
##	1417	1417	63	0	1	1	170.0	90.3	31.2	1	0	134
##	1418	1418	57	0	3	0	169.7	79.2	27.5	0	1	129
##	1419	1419	57	1	3	0	177.1	94.7	30.2	1	0	142
##	1420	1420	60	1	1	1	163.2	83.4	31.3	1	0	132
##	1421	1421	62	0	1	2	172.3	69.9	23.6	1	1	133
##	1422	1422	62	1	1	0	171.0	66.0	22.6	1	1	147
##	1423	1423	68	1	1	1	176.2	82.9	26.7	1	0	133
##	1424	1424	55	1	1	0	182.5	82.9	24.9	0	0	123
##	1425	1425	54	1	4	0	166.0	78.8	28.6	0	0	120
##	1426	1426	79	1	1	1	172.6	67.2	22.5	1	1	156
##	1427	1427	58	1	1	2	176.4	76.9	24.7	1	0	135
##	1428	1428	63	0	1	0	172.7	89.4	30.0	1	0	146
##	1429	1429	62	1	1	1	171.5	82.7	28.1	1	1	132
##	1430	1430	60	0	4	1	173.4	67.3	22.4	1	0	136
##	1431	1431	55	1	4	0	167.4	81.9	29.2	0	0	122
##	1432	1432	59	0	1	0	172.8	71.2	23.8	1	0	148
##	1433	1433	53	1	3	1	165.9	86.4	31.4	0	0	127
##	1434	1434	65	1	1	0	171.4	78.0	26.5	1	0	137
##	1435	1435	57	0	1	0	160.4	82.7	32.1	0	0	127
##	1436	1436	64	0	1	0	169.6	82.7	28.7	1	0	131
##	1437	1437	64	1	1	1	178.3	97.9	30.8	1	0	139
##	1438	1438	61	0	1	0	173.2	86.7	28.9	0	0	130
##	1439	1439	55	1	2	0	163.2	90.8	34.1	0	1	115
##	1440	1440	52	0	1	0	169.4	70.5	24.6	0	1	121
##	1441	1441	58	1	3	0	175.4	83.1	27.0	0	0	127
##	1442	1442	57	0	3	0	166.2	82.2	29.8	0	0	127
##	1443	1443	63	1	1	0	178.1	75.4	23.8	1	0	134
##	1444	1444	68	1	1	0	168.4	85.3	30.1	1	0	140

## 1445	1445	59	1	3	1	156.0	74.9	30.8	1	1	131
## 1446	1446	62	1	3	0	163.3	74.7	28.0	0	0	126
## 1447	1447	66	0	3	0	173.1	74.7	24.9	0	0	125
## 1448	1448	56	1	4	2	166.4	83.2	30.0	0	0	120
## 1449	1449	65	0	1	1	165.0	83.2	30.6	1	0	141
## 1450	1450	61	1	3	0	168.3	82.8	29.2	0	0	127
## 1451	1451	59	1	3	0	167.0	77.7	27.9	1	0	140
## 1452	1452	60	1	1	0	182.1	79.0	23.8	1	0	145
## 1453	1453	61	0	1	1	179.4	87.8	27.3	0	0	112
## 1454	1454	69	1	4	0	165.6	61.6	22.5	1	0	137
## 1455	1455	59	1	1	0	170.9	84.0	28.8	0	0	124
## 1456	1456	65	0	3	0	161.9	69.2	26.4	1	0	149
## 1457	1457	62	0	1	1	178.5	86.5	27.1	0	0	119
## 1458	1458	60	0	1	1	177.1	86.0	27.4	1	0	134
## 1459	1459	60	0	1	0	177.6	86.7	27.5	1	0	133
## 1460	1460	58	1	3	1	164.3	81.3	30.1	1	0	144
## 1461	1461	58	1	1	1	170.4	82.1	28.3	1	0	137
## 1462	1462	54	1	1	2	171.4	73.7	25.1	0	0	109
## 1463	1463	64	1	1	0	175.2	80.2	26.1	1	0	143
## 1464	1464	64	0	1	0	168.3	76.6	27.1	1	0	134
## 1465	1465	58	1	1	2	168.1	68.4	24.2	1	1	131
## 1466	1466	64	0	3	0	172.4	76.2	25.6	0	0	127
## 1467	1467	63	1	4	0	162.7	72.2	27.3	1	0	135
## 1468	1468	61	1	4	2	177.0	79.7	25.5	1	0	144
## 1469	1469	59	1	3	0	168.4	80.8	28.5	0	0	117
## 1470	1470	66	0	1	1	161.1	82.7	31.8	1	0	147
## 1471	1471	58	1	1	0	174.6	80.1	26.3	1	0	134
## 1472	1472	60	1	1	0	174.0	75.4	24.9	0	0	124
## 1473	1473	64	0	3	1	172.5	85.5	28.7	0	0	127
## 1474	1474	66	0	1	2	166.6	75.8	27.3	0	1	130
## 1475	1475	60	0	1	2	162.3	70.3	26.7	0	0	126
## 1476	1476	61	1	1	0	167.1	77.6	27.8	1	0	131
## 1477	1477	58	1	1	2	169.9	86.7	30.0	1	0	134
## 1478	1478	59	1	1	0	168.8	70.4	24.7	1	1	131
## 1479	1479	54	0	1	1	171.4	78.4	26.7	0	0	126
## 1480	1480	62	1	1	0	166.2	66.6	24.1	1	0	131
## 1481	1481	61	1	1	0	169.9	75.7	26.2	0	0	129
## 1482	1482	61	0	1	0	162.1	76.2	29.0	1	0	142
## 1483	1483	57	1	3	2	176.6	90.0	28.8	0	1	124
## 1484	1484	69	1	1	0	167.6	82.7	29.4	1	0	140
## 1485	1485	62	1	1	0	164.0	84.6	31.4	1	0	137
## 1486	1486	54	0	3	1	162.9	89.0	33.5	0	0	124
## 1487	1487	63	1	1	0	171.6	88.3	30.0	1	1	144
## 1488	1488	61	0	3	0	168.7	77.0	27.1	0	0	118
## 1489	1489	59	0	1	2	174.3	77.5	25.5	1	0	133
## 1490	1490	56	0	1	0	168.7	86.8	30.5	0	0	127
## 1491	1491	66	0	1	2	172.9	86.9	29.1	1	1	132
## 1492	1492	47	0	1	0	168.5	84.9	29.9	0	0	125
## 1493	1493	64	0	1	1	168.7	80.0	28.1	1	0	140
## 1494	1494	59	0	1	1	160.4	77.4	30.1	1	1	132
## 1495	1495	61	1	1	0	166.7	74.8	26.9	1	0	138
## 1496	1496	65	1	1	1	169.7	76.6	26.6	0	0	124
## 1497	1497	63	1	1	1	163.9	72.3	26.9	1	0	147
## 1498	1498	62	1	1	0	170.0	83.7	29.0	1	0	149

##	1499	1499	56	1	3	0	160.8	68.5	26.5	0	0	117
##	1500	1500	64	1	3	0	175.8	80.7	26.1	0	0	124
##	1501	1501	57	1	2	0	163.4	74.7	28.0	0	0	111
##	1502	1502	61	0	1	0	169.2	83.3	29.1	1	0	132
##	1503	1503	61	0	3	0	171.6	84.8	28.8	1	0	134
##	1504	1504	54	1	1	1	170.5	66.6	22.9	1	0	135
##	1505	1505	59	1	1	0	166.6	78.2	28.2	1	0	139
##	1506	1506	62	1	1	1	165.5	83.9	30.6	0	0	130
##	1507	1507	63	0	1	1	171.7	80.8	27.4	1	1	134
##	1508	1508	62	1	3	0	162.1	89.1	33.9	0	0	122
##	1509	1509	57	0	2	0	174.6	72.1	23.7	0	0	126
##	1510	1510	61	1	4	0	157.6	77.5	31.2	0	0	126
##	1511	1511	52	1	3	0	166.1	81.7	29.6	0	0	119
##	1512	1512	61	0	4	0	172.4	75.4	25.4	0	0	129
##	1513	1513	58	0	1	0	176.1	86.3	27.8	1	0	138
##	1514	1514	55	0	1	0	168.7	85.7	30.1	0	1	130
##	1515	1515	57	0	1	0	172.2	80.7	27.2	1	0	135
##	1516	1516	48	1	1	1	160.1	75.4	29.4	0	0	124
##	1517	1517	61	0	3	2	163.7	64.0	23.9	0	0	128
##	1518	1518	65	0	1	0	174.3	80.6	26.5	0	0	126
##	1519	1519	67	0	1	0	168.3	84.4	29.8	1	0	144
##	1520	1520	55	0	3	1	166.2	69.4	25.1	0	0	116
##	1521	1521	61	0	1	0	162.5	74.1	28.1	0	0	118
##	1522	1522	62	0	1	1	171.8	79.1	26.8	0	0	123
##	1523	1523	55	1	3	2	170.0	72.7	25.1	1	0	136
##	1524	1524	58	0	1	2	163.0	66.9	25.2	0	0	129
##	1525	1525	57	0	3	0	168.8	78.0	27.4	1	0	139
##	1526	1526	57	1	1	0	156.7	67.2	27.4	1	0	138
##	1527	1527	67	0	1	1	169.8	72.0	25.0	0	1	128
##	1528	1528	63	1	1	0	183.6	83.5	24.8	1	0	132
##	1529	1529	65	1	3	2	165.4	80.8	29.6	1	1	138
##	1530	1530	55	0	1	1	174.2	83.4	27.5	1	0	136
##	1531	1531	63	1	1	0	162.6	74.9	28.3	1	0	135
##	1532	1532	53	1	1	2	177.1	82.6	26.3	0	1	123
##	1533	1533	65	1	1	2	157.5	87.5	35.3	1	0	147
##	1534	1534	63	1	1	0	178.2	82.6	26.0	1	1	133
##	1535	1535	62	0	1	1	170.4	66.8	23.0	1	0	136
##	1536	1536	55	0	1	0	154.4	76.5	32.1	0	0	117
##	1537	1537	62	0	1	0	181.2	86.6	26.4	0	0	129
##	1538	1538	68	1	3	0	183.1	69.7	20.8	1	0	138
##	1539	1539	54	0	3	1	172.4	83.8	28.2	1	0	133
##	1540	1540	61	1	3	1	174.1	87.8	29.0	1	0	139
##	1541	1541	63	1	1	1	166.2	83.6	30.3	0	0	130
##	1542	1542	57	0	1	0	171.4	96.2	32.7	0	0	129
##	1543	1543	61	0	3	2	171.3	80.8	27.5	1	0	134
##	1544	1544	58	0	1	2	165.5	78.3	28.6	1	0	143
##	1545	1545	60	0	1	0	181.8	85.8	26.0	1	0	131
##	1546	1546	59	1	1	0	176.1	76.8	24.7	1	1	140
##	1547	1547	56	1	4	0	171.3	76.0	25.9	1	0	132
##	1548	1548	68	0	4	0	169.1	79.3	27.7	1	1	136
##	1549	1549	59	0	1	0	170.8	96.6	33.1	1	0	134
##	1550	1550	65	1	1	2	167.2	82.6	29.6	1	0	140
##	1551	1551	64	1	1	0	171.8	94.3	32.0	0	0	128
##	1552	1552	62	0	1	0	171.6	85.5	29.0	0	1	117

##	1553	1553	58	0	4	0	169.8	85.4	29.6	0	0	118
##	1554	1554	61	1	3	0	161.7	72.9	27.9	1	0	139
##	1555	1555	69	1	4	0	158.2	71.6	28.6	0	0	125
##	1556	1556	63	0	1	1	164.6	70.0	25.8	1	1	135
##	1557	1557	62	0	1	1	172.0	70.8	23.9	1	0	138
##	1558	1558	56	0	1	1	173.7	92.9	30.8	0	0	125
##	1559	1559	63	0	1	0	168.6	76.5	26.9	1	0	131
##	1560	1560	60	1	1	2	174.0	83.4	27.5	0	0	130
##	1561	1561	64	0	1	0	166.7	87.4	31.4	1	0	145
##	1562	1562	63	0	1	0	168.2	83.0	29.3	0	1	130
##	1563	1563	67	0	1	0	164.8	80.2	29.5	1	0	145
##	1564	1564	69	1	1	0	168.7	85.4	30.0	1	0	136
##	1565	1565	58	1	1	0	158.8	77.7	30.8	1	0	142
##	1566	1566	51	0	1	1	174.1	88.1	29.1	0	0	119
##	1567	1567	65	1	1	1	171.0	78.7	26.9	1	1	131
##	1568	1568	58	0	1	0	173.6	79.7	26.4	0	0	124
##	1569	1569	60	1	1	0	170.7	74.6	25.6	0	0	128
##	1570	1570	54	1	1	0	169.5	87.9	30.6	0	0	113
##	1571	1571	54	0	3	0	164.6	74.9	27.6	0	0	127
##	1572	1572	63	0	3	0	173.9	91.1	30.1	1	0	133
##	1573	1573	57	1	1	0	172.8	80.6	27.0	0	0	124
##	1574	1574	67	1	1	2	170.7	85.7	29.4	1	0	142
##	1575	1575	56	1	1	1	174.6	86.0	28.2	0	0	128
##	1576	1576	59	1	1	2	172.9	84.8	28.4	1	0	143
##	1577	1577	60	0	4	0	160.6	77.7	30.1	1	0	136
##	1578	1578	62	1	1	0	177.4	62.6	19.9	1	0	132
##	1579	1579	52	1	1	2	172.7	84.3	28.2	1	1	133
##	1580	1580	66	1	1	1	172.4	80.0	26.9	1	0	135
##	1581	1581	61	1	1	0	172.5	79.2	26.6	0	1	126
##	1582	1582	56	0	2	1	171.9	86.2	29.2	1	0	133
##	1583	1583	73	1	4	0	181.6	83.1	25.2	1	0	138
##	1584	1584	62	0	1	1	168.7	69.7	24.5	0	0	126
##	1585	1585	61	0	1	0	168.5	73.6	25.9	1	1	131
##	1586	1586	64	1	3	0	169.2	82.5	28.8	1	0	142
##	1587	1587	63	0	1	0	162.1	76.1	29.0	1	0	134
##	1588	1588	63	0	3	0	175.9	86.1	27.8	1	0	142
##	1589	1589	59	0	1	0	180.8	76.0	23.3	0	0	124
##	1590	1590	57	0	3	0	173.0	79.3	26.5	0	0	129
##	1591	1591	62	0	1	2	171.1	72.9	24.9	1	0	134
##	1592	1592	54	1	2	0	161.6	87.9	33.7	0	0	116
##	1593	1593	62	0	3	0	166.4	75.6	27.3	1	0	131
##	1594	1594	56	0	1	0	177.8	74.9	23.7	0	0	130
##	1595	1595	61	0	2	0	179.0	87.9	27.4	1	1	132
##	1596	1596	64	1	1	0	173.3	76.7	25.5	0	0	129
##	1597	1597	66	1	4	1	165.0	69.4	25.5	0	0	121
##	1598	1598	61	1	1	0	166.7	80.9	29.1	0	1	128
##	1599	1599	69	1	1	0	171.4	91.2	31.1	1	0	137
##	1600	1600	66	1	1	1	182.4	83.0	24.9	1	0	143
##	1601	1601	68	0	3	0	176.0	78.6	25.4	1	0	151
##	1602	1602	55	0	1	0	176.4	76.6	24.6	0	0	121
##	1603	1603	59	0	1	0	177.1	92.3	29.4	1	0	136
##	1604	1604	67	1	1	2	173.5	78.8	26.2	1	0	137
##	1605	1605	66	1	1	1	168.2	93.9	33.2	0	0	126
##	1606	1606	62	1	3	2	171.7	95.3	32.3	0	1	128

## 1607	1607	60	0	3	0	173.2	76.2	25.4	0	1	124
## 1608	1608	68	1	3	1	177.1	82.7	26.4	1	0	141
## 1609	1609	57	0	3	0	175.1	70.9	23.1	1	0	137
## 1610	1610	58	0	1	1	172.2	71.4	24.1	0	1	128
## 1611	1611	67	0	1	0	167.2	82.9	29.6	1	1	132
## 1612	1612	61	0	1	0	160.9	72.3	27.9	1	0	132
## 1613	1613	63	1	1	0	170.2	100.2	34.6	0	0	126
## 1614	1614	64	0	1	1	175.4	84.1	27.3	1	1	144
## 1615	1615	60	1	1	1	180.6	91.9	28.2	0	0	128
## 1616	1616	69	0	1	0	165.7	76.0	27.7	0	0	129
## 1617	1617	62	1	1	0	167.4	78.6	28.0	1	0	134
## 1618	1618	66	1	1	0	162.4	90.4	34.3	1	0	140
## 1619	1619	59	0	4	0	159.6	84.3	33.1	0	0	129
## 1620	1620	66	0	4	1	176.1	91.1	29.4	1	0	135
## 1621	1621	54	0	2	1	176.2	72.8	23.4	0	0	113
## 1622	1622	62	0	1	2	168.8	82.2	28.9	1	0	131
## 1623	1623	68	0	4	0	171.0	87.7	30.0	1	0	138
## 1624	1624	64	1	1	0	170.7	79.1	27.2	0	0	126
## 1625	1625	70	1	1	1	177.0	89.0	28.4	1	0	142
## 1626	1626	56	0	1	0	174.7	76.7	25.1	1	0	132
## 1627	1627	57	0	4	0	161.2	76.0	29.2	0	0	120
## 1628	1628	66	1	1	1	174.6	79.2	26.0	1	0	152
## 1629	1629	64	0	1	0	177.1	96.7	30.8	0	0	124
## 1630	1630	57	0	1	0	162.8	75.1	28.4	0	0	117
## 1631	1631	64	0	3	1	164.2	81.1	30.1	1	1	132
## 1632	1632	62	0	1	0	164.2	90.1	33.4	1	0	133
## 1633	1633	58	0	3	0	174.5	83.8	27.5	0	0	130
## 1634	1634	59	0	2	0	165.1	78.7	28.9	0	1	126
## 1635	1635	62	0	1	0	173.1	82.5	27.5	1	0	136
## 1636	1636	51	1	1	1	170.6	80.3	27.6	1	0	136
## 1637	1637	58	1	1	0	166.8	76.0	27.3	0	0	130
## 1638	1638	57	1	1	0	157.9	81.6	32.7	1	1	138
## 1639	1639	63	0	1	0	166.5	80.3	29.0	0	0	125
## 1640	1640	61	0	1	1	174.0	98.3	32.4	1	0	155
## 1641	1641	60	0	1	1	161.4	81.1	31.1	1	0	143
## 1642	1642	64	1	3	0	175.1	79.0	25.8	1	0	132
## 1643	1643	62	1	1	1	167.1	72.6	26.0	1	0	135
## 1644	1644	60	1	1	1	173.7	76.5	25.4	0	0	126
## 1645	1645	56	1	1	1	170.9	78.7	26.9	1	0	132
## 1646	1646	68	0	1	0	183.6	83.5	24.8	1	0	132
## 1647	1647	63	1	1	0	162.1	81.3	31.0	1	0	146
## 1648	1648	60	0	1	2	172.1	70.7	23.9	1	0	134
## 1649	1649	55	0	1	0	183.3	79.4	23.6	0	1	125
## 1650	1650	61	1	1	0	178.6	80.3	25.2	1	1	140
## 1651	1651	69	1	1	0	162.0	86.0	32.8	1	0	138
## 1652	1652	56	1	3	1	169.7	71.6	24.9	0	0	118
## 1653	1653	69	1	1	0	164.4	78.0	28.9	0	0	125
## 1654	1654	57	1	1	0	167.6	82.1	29.2	0	0	113
## 1655	1655	67	0	1	0	163.8	69.7	26.0	1	0	140
## 1656	1656	61	0	3	0	165.4	71.2	26.0	0	0	119
## 1657	1657	58	0	1	0	173.7	75.6	25.1	1	1	133
## 1658	1658	60	1	1	0	177.1	98.2	31.3	1	0	133
## 1659	1659	62	1	3	1	173.4	74.4	24.7	1	0	135
## 1660	1660	65	1	1	0	167.5	74.8	26.7	1	0	139

## 1661	1661	56	1	1	0	175.4	79.4	25.8	1	0 131
## 1662	1662	62	0	1	0	163.7	72.6	27.1	0	0 128
## 1663	1663	54	1	3	1	164.7	85.9	31.7	0	1 121
## 1664	1664	57	0	4	2	173.0	78.2	26.1	0	0 127
## 1665	1665	67	0	1	0	168.3	79.7	28.1	1	0 151
## 1666	1666	60	1	1	0	171.7	75.9	25.8	1	0 138
## 1667	1667	60	1	1	1	179.9	84.8	26.2	0	0 130
## 1668	1668	58	0	1	2	173.7	85.4	28.3	0	0 123
## 1669	1669	62	1	2	1	180.4	81.7	25.1	1	1 136
## 1670	1670	59	0	1	0	170.7	93.7	32.2	0	0 128
## 1671	1671	61	0	1	1	167.8	75.8	26.9	1	0 132
## 1672	1672	63	0	1	1	164.9	74.5	27.4	1	1 135
## 1673	1673	59	1	1	0	165.8	72.5	26.4	0	0 130
## 1674	1674	69	0	1	0	170.8	84.3	28.9	0	0 129
## 1675	1675	61	0	4	0	178.2	88.6	27.9	1	0 131
## 1676	1676	57	0	1	0	169.7	84.9	29.5	1	0 138
## 1677	1677	62	1	1	1	169.7	89.4	31.0	1	0 137
## 1678	1678	61	1	3	0	172.1	63.6	21.5	1	1 135
## 1679	1679	59	1	3	0	162.4	71.2	27.0	0	0 128
## 1680	1680	62	0	3	0	168.1	86.5	30.6	1	1 142
## 1681	1681	59	1	1	0	168.2	81.1	28.6	1	0 137
## 1682	1682	57	1	1	0	168.5	87.2	30.7	0	0 115
## 1683	1683	65	1	1	0	167.3	83.7	29.9	1	0 141
## 1684	1684	63	1	3	2	166.1	77.2	28.0	1	0 141
## 1685	1685	58	1	2	0	166.5	86.9	31.4	0	0 122
## 1686	1686	57	1	1	1	178.0	78.0	24.6	0	0 125
## 1687	1687	61	0	3	0	173.2	66.0	22.0	0	1 126
## 1688	1688	61	0	3	1	179.0	76.1	23.8	0	0 122
## 1689	1689	66	1	3	0	171.5	63.5	21.6	0	0 126
## 1690	1690	65	0	3	0	162.5	73.2	27.7	1	0 133
## 1691	1691	59	0	1	1	159.7	84.1	33.0	0	1 128
## 1692	1692	60	0	1	0	167.6	75.1	26.7	0	0 116
## 1693	1693	66	0	3	0	170.1	85.6	29.6	0	0 125
## 1694	1694	58	1	1	0	174.2	84.7	27.9	1	0 131
## 1695	1695	55	0	1	0	166.3	82.1	29.7	0	1 122
## 1696	1696	59	0	1	1	172.3	72.4	24.4	1	0 134
## 1697	1697	58	0	1	1	170.7	82.9	28.5	1	0 143
## 1698	1698	62	0	3	0	175.3	74.4	24.2	1	1 132
## 1699	1699	52	0	1	1	168.3	84.7	29.9	0	0 124
## 1700	1700	60	1	2	0	171.1	74.5	25.5	0	0 127
## 1701	1701	67	0	3	0	147.8	77.9	35.7	1	1 140
## 1702	1702	63	1	1	1	168.5	89.3	31.5	0	1 122
## 1703	1703	64	0	1	0	170.8	77.8	26.7	1	0 135
## 1704	1704	58	1	4	0	161.3	77.9	29.9	0	0 112
## 1705	1705	61	1	4	0	170.9	97.9	33.5	1	0 132
## 1706	1706	62	0	1	0	157.9	65.5	26.3	1	0 139
## 1707	1707	62	0	3	1	176.9	89.6	28.6	1	0 131
## 1708	1708	50	1	1	0	178.0	73.8	23.3	0	0 121
## 1709	1709	60	1	1	1	178.2	79.9	25.1	0	0 130
## 1710	1710	60	1	1	1	168.5	83.3	29.3	0	0 116
## 1711	1711	57	0	2	0	166.2	73.6	26.7	0	1 128
## 1712	1712	57	0	1	0	160.8	75.4	29.1	1	0 139
## 1713	1713	61	1	1	0	166.3	66.8	24.2	1	0 139
## 1714	1714	62	1	1	1	174.6	79.6	26.1	0	0 130

## 1715	1715	68	0	1	0	167.5	80.5	28.7	1	0 140
## 1716	1716	69	1	3	1	164.3	91.9	34.1	1	0 131
## 1717	1717	58	0	4	0	168.7	72.4	25.5	1	0 138
## 1718	1718	65	1	1	0	179.4	77.4	24.0	1	0 132
## 1719	1719	59	1	1	1	163.4	93.7	35.1	0	1 124
## 1720	1720	60	0	1	2	173.5	86.6	28.8	1	0 133
## 1721	1721	58	1	1	0	177.4	80.8	25.7	0	1 129
## 1722	1722	56	0	1	0	165.5	82.7	30.2	0	0 129
## 1723	1723	54	0	1	0	182.7	80.4	24.1	0	1 125
## 1724	1724	60	0	1	1	184.7	64.2	18.8	0	0 129
## 1725	1725	50	1	1	0	168.8	75.4	26.5	0	0 123
## 1726	1726	61	0	1	0	168.8	80.4	28.2	1	0 137
## 1727	1727	64	1	1	1	165.2	72.3	26.5	1	0 132
## 1728	1728	63	1	4	0	173.9	73.5	24.3	0	1 123
## 1729	1729	69	0	2	0	179.9	88.4	27.3	1	0 147
## 1730	1730	59	1	1	0	170.7	72.8	25.0	1	0 135
## 1731	1731	57	1	1	0	157.4	76.9	31.0	0	0 126
## 1732	1732	58	0	1	0	175.7	96.9	31.4	0	1 123
## 1733	1733	65	0	1	0	173.4	84.9	28.3	0	0 120
## 1734	1734	63	0	1	0	176.7	95.0	30.5	1	0 135
## 1735	1735	62	0	1	0	176.1	83.1	26.8	1	0 137
## 1736	1736	57	1	1	2	169.0	77.7	27.2	0	0 128
## 1737	1737	59	0	3	0	165.3	81.8	29.9	0	0 125
## 1738	1738	67	1	1	0	170.3	82.7	28.5	0	0 128
## 1739	1739	59	0	2	0	175.1	77.9	25.4	0	0 122
## 1740	1740	59	0	1	1	168.7	77.0	27.1	1	0 138
## 1741	1741	55	0	3	1	177.2	86.4	27.5	0	1 128
## 1742	1742	56	1	1	0	175.8	95.6	31.0	0	0 124
## 1743	1743	70	1	1	2	170.9	78.0	26.7	1	1 143
## 1744	1744	54	0	1	2	167.8	78.9	28.0	0	1 120
## 1745	1745	68	0	4	0	171.0	84.5	28.9	1	0 136
## 1746	1746	60	0	3	1	175.3	71.8	23.4	0	0 127
## 1747	1747	65	1	1	0	168.4	65.8	23.2	0	0 127
## 1748	1748	64	0	4	0	174.9	85.1	27.8	0	1 126
## 1749	1749	56	0	1	0	170.7	77.5	26.6	0	0 117
## 1750	1750	59	1	1	0	158.6	72.4	28.8	0	1 126
## 1751	1751	58	0	3	1	162.4	81.3	30.8	1	0 132
## 1752	1752	54	0	3	0	162.4	72.3	27.4	0	0 130
## 1753	1753	59	1	3	0	161.3	68.4	26.3	1	0 131
## 1754	1754	56	1	1	0	163.3	90.4	33.9	1	0 135
## 1755	1755	58	0	1	2	167.5	85.1	30.3	0	0 114
## 1756	1756	61	1	1	0	180.2	75.7	23.3	1	0 150
## 1757	1757	57	0	3	0	164.7	80.0	29.5	0	0 118
## 1758	1758	55	0	2	0	163.9	87.3	32.5	1	0 134
## 1759	1759	46	1	1	0	170.2	72.1	24.9	0	0 112
## 1760	1760	58	0	1	2	182.5	86.0	25.8	1	0 136
## 1761	1761	63	1	3	1	156.2	82.2	33.7	1	0 136
## 1762	1762	59	0	1	1	169.1	83.3	29.1	0	0 112
## 1763	1763	60	1	3	0	167.1	77.8	27.9	1	0 142
## 1764	1764	66	0	3	1	172.4	86.2	29.0	1	0 140
## 1765	1765	59	1	1	2	175.6	87.7	28.5	0	0 126
## 1766	1766	63	1	1	2	170.9	74.5	25.5	0	1 128
## 1767	1767	56	1	3	1	168.8	70.7	24.8	0	0 114
## 1768	1768	58	0	3	1	162.8	72.7	27.4	1	0 138

## 1769	1769	60	0	1	0	171.3	80.6	27.5	1	0	141
## 1770	1770	55	0	1	1	168.6	76.1	26.8	0	0	117
## 1771	1771	64	1	3	1	171.4	83.6	28.4	1	0	134
## 1772	1772	52	0	1	0	171.3	76.5	26.1	0	0	115
## 1773	1773	59	0	1	2	171.4	74.0	25.2	1	0	142
## 1774	1774	62	1	1	0	176.3	76.9	24.8	1	0	133
## 1775	1775	57	1	1	0	177.9	75.3	23.8	0	1	124
## 1776	1776	62	0	1	1	166.4	75.6	27.3	1	1	132
## 1777	1777	59	1	1	0	160.3	86.5	33.7	0	1	128
## 1778	1778	58	0	1	0	166.1	80.8	29.3	0	0	130
## 1779	1779	62	0	1	2	163.0	75.2	28.3	1	0	141
## 1780	1780	65	1	1	0	174.7	78.9	25.9	1	0	133
## 1781	1781	64	0	3	0	174.2	88.3	29.1	1	0	138
## 1782	1782	57	0	3	1	170.9	87.5	30.0	1	1	137
## 1783	1783	59	1	3	0	172.0	78.2	26.4	1	0	135
## 1784	1784	58	1	1	1	155.6	72.9	30.1	0	0	120
## 1785	1785	62	0	1	1	175.4	79.0	25.7	1	0	143
## 1786	1786	57	1	3	1	169.9	81.7	28.3	0	1	129
## 1787	1787	56	0	1	0	164.5	82.3	30.4	0	0	124
## 1788	1788	63	1	3	1	169.1	83.9	29.3	1	0	131
## 1789	1789	54	1	1	0	167.9	66.6	23.6	0	0	130
## 1790	1790	57	0	3	1	171.1	79.5	27.1	0	0	125
## 1791	1791	56	0	1	0	168.0	67.9	24.1	0	0	123
## 1792	1792	62	1	3	1	175.5	71.3	23.2	1	0	140
## 1793	1793	61	1	1	2	183.1	78.6	23.5	1	0	135
## 1794	1794	59	0	1	0	168.6	78.7	27.7	0	0	127
## 1795	1795	68	1	1	0	172.4	89.5	30.1	1	1	138
## 1796	1796	58	0	1	2	162.5	69.2	26.2	0	0	118
## 1797	1797	53	1	1	2	166.5	81.0	29.2	0	0	117
## 1798	1798	65	0	4	0	161.0	75.5	29.1	1	0	141
## 1799	1799	58	0	2	2	182.8	94.1	28.2	1	1	136
## 1800	1800	56	1	3	1	182.2	76.5	23.0	1	0	136
## 1801	1801	61	1	1	1	170.7	85.8	29.4	0	0	128
## 1802	1802	70	0	1	0	176.2	72.8	23.5	1	0	137
## 1803	1803	58	1	1	0	172.0	83.1	28.1	0	0	128
## 1804	1804	62	0	1	1	173.7	78.1	25.9	0	0	116
## 1805	1805	56	0	1	2	162.3	74.5	28.3	0	1	120
## 1806	1806	63	0	4	0	161.2	83.5	32.1	0	0	118
## 1807	1807	60	0	1	0	168.5	77.3	27.2	1	0	136
## 1808	1808	61	0	4	2	169.3	93.0	32.5	1	0	143
## 1809	1809	62	0	2	0	169.9	81.4	28.2	0	0	126
## 1810	1810	53	0	1	2	176.3	86.0	27.7	0	0	120
## 1811	1811	57	1	1	1	160.0	84.3	32.9	1	1	132
## 1812	1812	66	1	1	0	188.6	85.3	24.0	1	0	133
## 1813	1813	63	1	1	1	157.9	82.6	33.2	1	0	136
## 1814	1814	64	0	1	1	165.1	88.1	32.3	1	0	140
## 1815	1815	58	1	2	0	164.4	78.6	29.1	0	1	118
## 1816	1816	63	1	1	2	172.4	98.3	33.1	1	0	131
## 1817	1817	64	0	3	0	166.7	80.3	28.9	0	1	129
## 1818	1818	61	1	3	1	162.6	75.9	28.7	1	0	134
## 1819	1819	57	0	3	0	171.8	81.0	27.5	0	0	121
## 1820	1820	68	0	1	2	172.5	77.7	26.1	0	0	127
## 1821	1821	63	1	2	2	160.2	81.7	31.8	0	0	126
## 1822	1822	59	1	2	2	162.2	55.9	21.3	0	1	129

##	1823	1823	63	1	3	0	173.2	79.4	26.5	1	0	135
##	1824	1824	59	1	4	0	169.5	86.1	30.0	0	0	127
##	1825	1825	60	1	1	0	159.7	70.0	27.4	1	0	131
##	1826	1826	61	1	1	0	169.2	75.6	26.4	0	0	124
##	1827	1827	61	1	1	1	170.4	76.7	26.4	0	0	126
##	1828	1828	56	1	3	0	178.6	80.1	25.1	0	0	128
##	1829	1829	68	1	1	0	171.3	70.5	24.0	1	0	131
##	1830	1830	67	0	1	0	168.4	80.6	28.4	1	0	139
##	1831	1831	57	1	1	2	157.0	78.4	31.8	0	0	125
##	1832	1832	60	0	3	0	179.8	82.7	25.6	0	0	129
##	1833	1833	50	0	3	0	176.6	79.5	25.5	0	0	125
##	1834	1834	64	0	1	0	171.9	78.2	26.5	1	0	134
##	1835	1835	59	1	1	1	166.4	80.0	28.9	1	0	148
##	1836	1836	62	1	1	0	162.2	77.0	29.3	1	0	131
##	1837	1837	58	1	3	2	170.1	75.8	26.2	1	0	133
##	1838	1838	71	1	4	2	169.7	76.3	26.5	1	0	132
##	1839	1839	60	0	1	1	167.7	74.1	26.3	1	0	140
##	1840	1840	63	0	3	0	170.0	62.5	21.6	1	0	139
##	1841	1841	59	1	4	0	166.4	76.6	27.7	0	0	121
##	1842	1842	64	0	1	0	167.2	81.5	29.2	1	0	146
##	1843	1843	60	1	4	0	167.4	76.2	27.2	0	0	126
##	1844	1844	63	0	1	1	175.4	77.3	25.1	1	1	142
##	1845	1845	69	1	1	0	165.0	81.7	30.0	0	0	126
##	1846	1846	59	1	3	0	171.3	74.2	25.3	0	0	114
##	1847	1847	61	0	1	2	176.5	90.2	29.0	1	0	142
##	1848	1848	59	1	4	0	161.4	73.5	28.2	1	0	136
##	1849	1849	56	1	1	0	165.8	67.2	24.5	1	0	139
##	1850	1850	61	1	1	1	172.3	80.5	27.1	1	0	138
##	1851	1851	60	0	1	0	164.2	75.4	28.0	1	0	136
##	1852	1852	56	1	1	0	166.8	78.8	28.3	0	0	128
##	1853	1853	52	0	1	0	160.6	76.2	29.5	0	0	126
##	1854	1854	53	0	3	1	156.1	71.7	29.4	0	1	128
##	1855	1855	60	1	1	2	172.3	90.1	30.3	1	0	132
##	1856	1856	60	1	1	1	175.8	75.0	24.3	0	0	126
##	1857	1857	61	0	1	2	161.2	75.4	29.0	1	0	140
##	1858	1858	57	1	1	0	173.7	88.1	29.2	1	0	133
##	1859	1859	58	1	1	0	171.3	77.6	26.4	1	0	139
##	1860	1860	54	0	1	0	169.9	84.4	29.3	1	0	131
##	1861	1861	63	0	3	0	166.9	87.0	31.2	0	0	125
##	1862	1862	54	0	1	0	171.6	63.4	21.5	1	0	136
##	1863	1863	55	0	1	0	166.3	87.3	31.6	0	0	130
##	1864	1864	58	0	3	0	172.5	79.0	26.6	0	0	129
##	1865	1865	66	1	2	2	166.3	70.3	25.4	1	0	137
##	1866	1866	67	1	1	0	162.5	83.9	31.8	1	0	133
##	1867	1867	61	0	1	1	166.5	75.8	27.3	1	0	145
##	1868	1868	65	0	1	0	159.5	87.3	34.3	1	0	139
##	1869	1869	57	1	1	0	172.6	84.6	28.4	1	0	133
##	1870	1870	60	0	1	0	166.1	72.5	26.3	1	0	132
##	1871	1871	60	0	4	1	164.0	82.7	30.8	0	0	130
##	1872	1872	62	0	1	0	155.6	70.1	29.0	0	1	126
##	1873	1873	53	1	1	0	172.9	78.2	26.1	0	0	119
##	1874	1874	62	0	1	0	171.2	79.8	27.2	1	0	131
##	1875	1875	65	1	3	0	167.2	85.5	30.6	0	0	130
##	1876	1876	61	1	1	1	164.2	76.1	28.2	1	1	136

## 1877	1877	59	0	1	2	183.7	89.3	26.5	1	0	132
## 1878	1878	64	0	1	0	169.5	79.4	27.6	1	0	140
## 1879	1879	48	1	1	0	175.1	65.5	21.4	0	1	122
## 1880	1880	54	1	3	1	172.2	69.4	23.4	0	0	130
## 1881	1881	62	1	2	0	167.1	78.7	28.2	0	0	125
## 1882	1882	59	1	1	0	173.5	77.5	25.7	0	0	127
## 1883	1883	56	0	1	1	159.8	82.7	32.4	0	0	123
## 1884	1884	61	0	3	1	154.6	63.1	26.4	0	0	122
## 1885	1885	60	1	1	0	179.5	91.6	28.4	0	0	119
## 1886	1886	62	0	1	0	166.0	78.7	28.6	0	0	130
## 1887	1887	63	0	1	2	161.0	74.9	28.9	1	0	131
## 1888	1888	52	1	3	0	169.1	82.5	28.9	0	0	121
## 1889	1889	54	1	1	0	164.4	80.2	29.7	1	1	135
## 1890	1890	56	0	2	0	169.4	85.6	29.8	0	0	129
## 1891	1891	55	0	1	1	166.0	76.7	27.8	0	0	128
## 1892	1892	67	1	1	0	172.0	75.2	25.4	1	0	140
## 1893	1893	62	0	1	0	169.4	86.6	30.2	0	0	130
## 1894	1894	62	1	2	0	166.5	87.2	31.5	1	0	132
## 1895	1895	54	1	2	0	165.6	73.8	26.9	1	0	145
## 1896	1896	61	0	1	0	174.9	67.0	21.9	0	1	127
## 1897	1897	64	0	1	2	167.5	76.7	27.3	1	0	131
## 1898	1898	53	0	4	1	163.9	78.4	29.2	0	1	123
## 1899	1899	53	0	3	0	171.6	84.7	28.7	0	0	122
## 1900	1900	61	1	1	0	168.6	91.5	32.2	0	0	128
## 1901	1901	59	0	3	2	168.5	75.6	26.6	0	0	120
## 1902	1902	66	1	1	1	163.5	75.4	28.2	1	0	137
## 1903	1903	61	0	1	0	175.1	83.6	27.3	1	0	134
## 1904	1904	67	0	3	0	170.8	74.5	25.5	1	0	135
## 1905	1905	67	0	1	1	159.8	82.4	32.3	1	0	137
## 1906	1906	66	0	1	2	168.8	77.4	27.2	0	0	128
## 1907	1907	60	1	3	1	169.6	77.1	26.8	1	1	139
## 1908	1908	60	1	1	0	169.9	81.2	28.1	0	0	128
## 1909	1909	58	1	3	1	181.1	83.3	25.4	0	0	130
## 1910	1910	63	0	1	0	173.9	88.4	29.2	0	0	127
## 1911	1911	60	1	1	1	168.7	84.2	29.6	0	0	120
## 1912	1912	60	1	1	1	166.3	77.3	28.0	1	0	132
## 1913	1913	56	0	1	0	167.2	87.8	31.4	0	0	129
## 1914	1914	61	0	1	0	172.5	77.8	26.1	1	1	141
## 1915	1915	61	1	3	0	166.5	79.5	28.7	1	0	132
## 1916	1916	60	1	1	0	167.8	68.1	24.2	1	0	132
## 1917	1917	61	0	1	0	162.5	70.9	26.9	1	0	133
## 1918	1918	57	1	1	1	167.9	80.7	28.6	0	0	126
## 1919	1919	56	0	1	1	169.1	87.2	30.5	0	0	122
## 1920	1920	69	1	4	1	167.3	81.8	29.2	1	0	139
## 1921	1921	67	0	1	0	172.7	80.6	27.0	1	0	138
## 1922	1922	62	0	1	1	170.7	79.1	27.2	1	0	133
## 1923	1923	60	0	1	2	176.2	74.5	24.0	0	0	122
## 1924	1924	57	0	3	1	177.5	73.5	23.3	1	0	134
## 1925	1925	57	1	1	0	170.2	76.3	26.3	0	0	115
## 1926	1926	61	1	1	0	167.5	78.3	27.9	0	0	122
## 1927	1927	54	0	1	0	167.2	69.5	24.9	0	0	127
## 1928	1928	67	0	1	1	167.9	78.1	27.7	1	1	143
## 1929	1929	57	0	1	0	175.4	79.2	25.7	0	0	130
## 1930	1930	62	1	1	1	173.1	81.5	27.2	1	0	142

##	1931	1931	61	0	1	1	175.6	69.4	22.5	0	0	127
##	1932	1932	62	1	1	0	178.1	82.9	26.1	0	0	127
##	1933	1933	57	1	1	0	165.7	77.4	28.2	0	0	112
##	1934	1934	58	0	1	0	170.9	70.6	24.2	1	0	137
##	1935	1935	64	0	1	1	172.3	79.4	26.7	1	0	138
##	1936	1936	60	0	1	0	167.1	84.3	30.2	0	0	122
##	1937	1937	58	1	4	1	178.2	84.5	26.6	1	0	143
##	1938	1938	51	1	1	1	172.4	90.6	30.5	0	1	115
##	1939	1939	63	1	2	2	172.1	82.0	27.7	1	1	136
##	1940	1940	59	1	1	0	182.1	85.3	25.7	0	0	130
##	1941	1941	62	1	3	0	169.1	82.9	29.0	1	0	135
##	1942	1942	56	1	3	0	174.2	87.9	29.0	0	0	130
##	1943	1943	64	1	1	1	166.9	69.2	24.8	1	1	137
##	1944	1944	58	1	3	1	176.7	75.8	24.3	1	0	133
##	1945	1945	53	0	1	0	162.8	85.9	32.4	1	0	139
##	1946	1946	65	1	3	0	177.2	88.3	28.1	1	0	137
##	1947	1947	60	0	1	0	173.9	81.2	26.8	1	0	134
##	1948	1948	53	0	3	0	181.3	74.4	22.6	0	0	123
##	1949	1949	55	0	1	1	167.0	89.3	32.0	0	0	127
##	1950	1950	56	1	1	2	173.3	76.3	25.4	1	0	133
##	1951	1951	57	0	1	0	162.2	75.0	28.5	0	0	117
##	1952	1952	54	0	1	0	177.6	83.6	26.5	1	0	133
##	1953	1953	67	0	1	0	174.7	91.3	29.9	1	0	147
##	1954	1954	67	0	4	0	168.0	66.0	23.4	1	0	149
##	1955	1955	58	1	1	0	168.1	87.6	31.0	0	0	116
##	1956	1956	61	0	1	0	182.1	101.7	30.7	1	0	132
##	1957	1957	63	1	1	0	161.9	86.0	32.8	0	1	130
##	1958	1958	65	0	3	1	171.2	77.2	26.3	1	0	145
##	1959	1959	53	0	1	0	172.5	87.7	29.5	0	0	123
##	1960	1960	68	0	4	0	169.0	78.3	27.4	1	0	145
##	1961	1961	61	1	1	0	177.3	83.2	26.5	0	1	129
##	1962	1962	60	1	1	0	172.7	61.8	20.7	0	0	124
##	1963	1963	53	0	1	2	160.7	71.7	27.8	0	0	126
##	1964	1964	53	0	3	1	178.7	84.0	26.3	0	0	116
##	1965	1965	57	0	1	0	173.1	95.3	31.8	1	0	133
##	1966	1966	56	1	2	1	174.0	72.2	23.8	0	0	129
##	1967	1967	58	0	3	0	169.9	73.1	25.3	1	0	136
##	1968	1968	58	1	1	0	163.6	81.8	30.6	0	0	119
##	1969	1969	67	0	2	0	160.9	75.1	29.0	1	0	137
##	1970	1970	51	0	1	1	171.9	78.7	26.6	0	0	127
##	1971	1971	66	1	3	0	178.4	69.4	21.8	1	0	138
##	1972	1972	65	1	1	0	172.1	80.2	27.1	1	0	133
##	1973	1973	63	0	1	1	176.3	79.3	25.5	0	0	130
##	1974	1974	55	0	1	0	177.8	84.3	26.7	0	0	118
##	1975	1975	58	1	3	0	176.9	82.7	26.4	1	0	134
##	1976	1976	64	0	1	0	174.7	79.0	25.9	0	0	123
##	1977	1977	59	0	1	1	168.5	74.6	26.2	1	0	136
##	1978	1978	57	0	1	0	177.8	85.6	27.1	0	0	123
##	1979	1979	55	0	1	0	165.2	77.6	28.4	1	0	131
##	1980	1980	59	0	1	0	165.8	69.2	25.2	0	0	123
##	1981	1981	56	0	1	1	170.6	75.7	26.0	1	0	136
##	1982	1982	55	1	1	0	170.2	76.8	26.5	0	0	129
##	1983	1983	60	1	3	0	168.9	89.0	31.2	1	1	135
##	1984	1984	56	0	3	0	170.5	74.4	25.6	0	1	129

##	1985	1985	55	1	1	0	182.7	91.7	27.5	0	1	115
##	1986	1986	59	0	1	0	174.5	90.2	29.6	0	0	128
##	1987	1987	62	1	3	0	173.9	84.1	27.8	1	0	138
##	1988	1988	61	1	4	0	167.9	87.6	31.1	1	1	149
##	1989	1989	61	1	1	0	163.6	79.6	29.7	0	0	126
##	1990	1990	69	1	4	1	169.6	78.1	27.2	1	0	131
##	1991	1991	63	1	2	0	165.8	85.5	31.1	0	0	120
##	1992	1992	60	1	1	0	174.4	88.9	29.2	0	0	127
##	1993	1993	56	0	3	1	162.7	71.8	27.1	0	0	125
##	1994	1994	54	0	1	2	174.0	74.7	24.7	1	0	132
##	1995	1995	56	0	3	1	173.0	82.7	27.6	0	0	130
##	1996	1996	60	1	3	1	169.1	76.9	26.9	0	0	120
##	1997	1997	51	0	1	0	172.3	70.2	23.6	1	0	141
##	1998	1998	61	0	2	0	175.7	87.7	28.4	1	0	136
##	1999	1999	57	0	1	0	162.5	80.8	30.6	0	0	116
##	2000	2000	58	1	1	0	171.8	80.0	27.1	1	0	131
##	2001	2001	62	1	1	0	164.8	63.1	23.3	0	0	113
##	2002	2002	62	1	1	2	173.0	88.2	29.5	1	0	131
##	2003	2003	65	1	3	0	164.6	70.9	26.2	1	1	138
##	2004	2004	54	0	1	1	166.2	86.2	31.2	0	0	122
##	2005	2005	59	0	1	1	171.4	75.5	25.7	0	0	110
##	2006	2006	67	0	1	2	175.0	88.1	28.8	1	0	140
##	2007	2007	61	0	1	0	164.4	77.5	28.7	1	0	139
##	2008	2008	64	1	1	0	167.6	82.6	29.4	0	0	126
##	2009	2009	45	0	1	0	164.6	82.4	30.4	0	0	120
##	2010	2010	62	0	1	0	167.5	75.0	26.7	0	0	128
##	2011	2011	55	1	1	0	176.7	76.1	24.4	0	0	123
##	2012	2012	59	0	1	1	169.8	75.1	26.0	1	0	136
##	2013	2013	62	0	1	0	178.0	81.0	25.6	1	1	134
##	2014	2014	63	1	4	1	161.6	70.0	26.8	1	0	138
##	2015	2015	59	0	1	0	170.1	67.8	23.4	1	1	135
##	2016	2016	61	0	1	0	174.3	88.5	29.2	1	0	141
##	2017	2017	67	0	1	0	175.6	80.8	26.2	1	0	139
##	2018	2018	58	0	1	1	161.1	70.0	27.0	0	0	129
##	2019	2019	67	1	3	1	171.3	69.7	23.8	1	0	133
##	2020	2020	56	0	1	1	165.2	77.6	28.4	0	0	127
##	2021	2021	61	0	4	1	167.7	81.4	28.9	0	0	128
##	2022	2022	67	0	3	0	169.9	79.4	27.5	1	0	132
##	2023	2023	47	1	1	0	163.2	79.4	29.8	0	0	106
##	2024	2024	68	1	1	0	163.2	85.2	32.0	1	0	133
##	2025	2025	68	1	1	2	165.4	76.3	27.9	1	0	146
##	2026	2026	59	0	1	0	161.8	85.2	32.6	1	0	131
##	2027	2027	54	1	1	1	172.5	85.2	28.6	0	0	124
##	2028	2028	60	0	1	0	171.8	83.2	28.2	0	0	127
##	2029	2029	63	1	1	0	163.2	77.9	29.2	1	0	144
##	2030	2030	66	0	1	1	174.2	71.4	23.5	0	0	126
##	2031	2031	60	0	1	1	170.4	74.7	25.7	0	1	129
##	2032	2032	54	1	3	0	169.8	69.6	24.1	0	0	126
##	2033	2033	56	0	3	0	154.2	77.6	32.6	0	0	127
##	2034	2034	67	1	1	0	170.3	77.0	26.5	1	0	141
##	2035	2035	61	0	1	0	166.6	88.3	31.8	0	0	122
##	2036	2036	65	0	4	0	172.4	78.9	26.5	1	0	131
##	2037	2037	59	1	1	0	167.5	74.1	26.4	0	0	126
##	2038	2038	64	1	2	1	178.5	73.6	23.1	1	0	132

##	2039	2039	63	1	1	2	155.8	75.5	31.1	0	0	128
##	2040	2040	63	0	1	0	160.0	66.7	26.1	0	0	130
##	2041	2041	61	0	1	0	160.3	82.2	32.0	1	0	136
##	2042	2042	62	1	3	1	157.7	76.3	30.7	1	0	139
##	2043	2043	61	1	1	1	167.6	69.4	24.7	1	0	145
##	2044	2044	67	1	1	1	166.8	78.4	28.2	1	0	133
##	2045	2045	51	0	1	0	168.8	74.4	26.1	0	0	121
##	2046	2046	59	1	3	0	175.5	70.0	22.7	1	0	138
##	2047	2047	67	0	1	0	178.4	77.3	24.3	1	0	142
##	2048	2048	55	1	1	1	173.3	82.9	27.6	1	0	131
##	2049	2049	62	0	1	0	172.0	69.0	23.3	1	0	137
##	2050	2050	65	0	1	0	165.8	73.2	26.6	1	0	142
##	2051	2051	61	1	1	0	178.0	69.7	22.0	1	1	142
##	2052	2052	58	1	1	2	152.6	72.6	31.2	1	1	135
##	2053	2053	62	0	1	1	169.7	68.9	23.9	1	0	133
##	2054	2054	60	0	1	0	172.1	76.9	26.0	1	0	133
##	2055	2055	57	1	1	0	171.6	79.9	27.1	1	0	146
##	2056	2056	61	0	1	1	166.4	83.4	30.1	1	0	136
##	2057	2057	57	1	1	0	163.1	75.5	28.4	0	1	122
##	2058	2058	63	1	1	1	175.4	86.8	28.2	0	0	115
##	2059	2059	55	1	1	0	165.1	91.5	33.6	0	0	124
##	2060	2060	57	1	4	1	164.6	77.5	28.6	1	1	135
##	2061	2061	65	0	3	0	165.1	72.0	26.4	0	1	127
##	2062	2062	56	1	4	2	167.3	77.1	27.6	0	0	119
##	2063	2063	66	1	3	0	156.8	86.9	35.4	1	0	132
##	2064	2064	60	1	1	0	165.6	86.7	31.6	1	0	131
##	2065	2065	62	1	1	0	170.6	70.5	24.2	1	0	132
##	2066	2066	57	0	4	0	164.5	74.1	27.4	0	0	127
##	2067	2067	64	1	1	1	172.8	80.0	26.8	0	0	127
##	2068	2068	59	1	1	0	164.5	88.4	32.7	0	1	127
##	2069	2069	70	1	3	0	180.5	84.8	26.0	1	0	136
##	2070	2070	58	1	1	1	172.2	76.8	25.9	1	0	147
##	2071	2071	61	0	1	0	166.3	82.8	29.9	1	0	133
##	2072	2072	53	1	3	1	167.2	75.0	26.8	0	0	123
##	2073	2073	62	0	1	0	172.7	69.3	23.2	1	0	139
##	2074	2074	63	0	1	0	175.5	81.8	26.5	1	0	142
##	2075	2075	57	1	3	0	170.3	68.7	23.7	1	0	135
##	2076	2076	56	0	1	2	169.2	76.6	26.8	1	0	137
##	2077	2077	54	1	3	0	163.3	67.3	25.2	0	0	122
##	2078	2078	57	1	1	0	166.8	70.4	25.3	1	0	133
##	2079	2079	55	1	1	0	175.0	92.2	30.1	0	1	113
##	2080	2080	55	1	1	0	170.9	78.2	26.8	1	0	135
##	2081	2081	67	0	3	1	166.9	79.8	28.6	1	0	140
##	2082	2082	60	0	1	0	177.9	86.0	27.2	1	0	138
##	2083	2083	54	0	1	0	175.5	86.4	28.0	0	0	128
##	2084	2084	61	0	1	0	169.4	89.4	31.1	0	0	124
##	2085	2085	60	0	1	0	169.1	98.4	34.4	1	0	155
##	2086	2086	61	0	1	0	174.4	78.6	25.8	1	1	144
##	2087	2087	58	1	1	0	166.0	89.3	32.4	1	0	137
##	2088	2088	53	0	1	1	169.5	82.4	28.7	1	0	138
##	2089	2089	64	0	3	0	167.1	80.0	28.7	0	0	121
##	2090	2090	53	0	4	0	169.8	90.7	31.5	1	1	133
##	2091	2091	57	0	1	0	161.9	86.6	33.1	1	0	132
##	2092	2092	60	0	1	2	169.7	81.0	28.2	1	0	137

##	2093	2093	59	0	1	1	176.9	86.4	27.6	1	0	148
##	2094	2094	54	0	1	0	179.9	74.7	23.1	0	0	130
##	2095	2095	57	0	1	0	166.7	80.3	28.9	0	0	129
##	2096	2096	54	1	3	0	152.5	78.4	33.7	0	0	115
##	2097	2097	66	1	1	0	173.6	73.6	24.4	0	0	115
##	2098	2098	57	1	1	1	171.4	74.5	25.4	0	1	126
##	2099	2099	58	1	1	0	168.3	68.4	24.2	0	0	128
##	2100	2100	65	1	3	1	173.0	84.9	28.4	1	0	138
##	2101	2101	62	0	1	1	177.9	81.8	25.9	0	0	124
##	2102	2102	63	1	1	0	176.5	96.4	31.0	0	1	129
##	2103	2103	55	0	1	1	155.0	78.7	32.8	0	0	125
##	2104	2104	64	0	1	1	159.7	76.4	30.0	0	0	122
##	2105	2105	50	0	1	0	174.8	78.1	25.6	0	0	122
##	2106	2106	60	1	3	0	181.1	96.7	29.5	0	0	124
##	2107	2107	55	0	4	0	179.0	87.1	27.2	0	0	120
##	2108	2108	62	0	1	2	166.4	68.1	24.6	0	1	123
##	2109	2109	56	0	3	0	168.4	89.9	31.7	0	0	122
##	2110	2110	56	1	1	0	167.6	83.8	29.8	1	0	135
##	2111	2111	52	0	1	0	167.3	75.7	27.1	0	0	127
##	2112	2112	47	1	1	0	164.7	79.4	29.3	1	0	133
##	2113	2113	58	0	1	0	178.2	84.5	26.6	0	0	125
##	2114	2114	61	0	1	2	167.6	89.6	31.9	0	0	127
##	2115	2115	62	0	1	2	165.0	78.7	28.9	0	0	129
##	2116	2116	61	1	1	0	164.6	88.5	32.7	0	0	130
##	2117	2117	66	1	3	0	167.3	70.7	25.2	0	1	129
##	2118	2118	64	0	1	0	170.2	80.2	27.7	1	1	141
##	2119	2119	59	0	1	0	164.5	85.6	31.6	0	0	128
##	2120	2120	57	1	2	0	179.7	77.8	24.1	1	0	131
##	2121	2121	57	0	1	1	173.8	65.6	21.7	0	0	127
##	2122	2122	57	1	1	0	176.9	79.5	25.4	0	0	127
##	2123	2123	60	0	3	0	160.1	74.7	29.1	0	0	125
##	2124	2124	62	0	1	2	175.5	79.9	25.9	1	0	131
##	2125	2125	64	1	1	0	177.8	83.2	26.3	1	0	135
##	2126	2126	61	0	3	0	183.8	76.9	22.8	1	0	131
##	2127	2127	58	0	1	2	175.1	89.0	29.0	1	1	138
##	2128	2128	63	1	2	0	169.0	83.3	29.2	0	0	128
##	2129	2129	55	0	1	0	170.3	79.7	27.5	0	0	127
##	2130	2130	63	0	1	0	164.1	81.1	30.1	0	0	126
##	2131	2131	49	1	4	0	171.8	93.5	31.7	0	0	124
##	2132	2132	66	0	1	1	176.6	82.1	26.3	1	0	135
##	2133	2133	56	1	1	0	188.5	75.8	21.3	0	0	130
##	2134	2134	54	0	3	0	173.8	88.7	29.4	0	0	123
##	2135	2135	63	1	3	1	173.2	89.9	30.0	1	0	137
##	2136	2136	65	0	1	0	178.4	84.0	26.4	1	0	141
##	2137	2137	70	1	1	0	166.0	80.3	29.2	1	0	132
##	2138	2138	64	0	1	0	170.5	84.6	29.1	0	0	126
##	2139	2139	64	1	4	0	166.5	74.7	26.9	1	0	144
##	2140	2140	66	0	4	1	166.3	85.1	30.7	1	0	138
##	2141	2141	60	1	1	0	171.6	86.6	29.4	1	0	139
##	2142	2142	62	1	4	1	172.6	77.8	26.1	1	0	139
##	2143	2143	62	1	1	0	168.5	84.7	29.8	1	0	142
##	2144	2144	62	0	1	0	168.7	83.1	29.2	1	0	144
##	2145	2145	64	1	4	1	178.2	89.6	28.2	1	0	138
##	2146	2146	57	0	1	0	162.1	81.4	31.0	0	0	120

##	2147	2147	65	1	1	0	170.8	85.9	29.4	0	1	128
##	2148	2148	53	1	2	0	173.8	76.0	25.2	1	1	131
##	2149	2149	59	0	1	2	171.8	76.6	25.9	1	0	133
##	2150	2150	64	0	3	0	168.1	75.4	26.7	1	0	139
##	2151	2151	61	1	1	2	170.1	81.7	28.2	0	0	130
##	2152	2152	56	0	3	0	170.0	87.3	30.2	0	1	109
##	2153	2153	57	1	1	0	170.2	93.7	32.3	0	0	125
##	2154	2154	64	1	1	0	162.7	72.3	27.3	1	0	135
##	2155	2155	58	1	1	0	176.7	75.6	24.2	0	0	127
##	2156	2156	57	0	2	0	164.5	72.5	26.8	1	0	136
##	2157	2157	66	1	3	0	173.2	84.2	28.1	1	1	132
##	2158	2158	61	0	2	0	177.5	82.1	26.1	0	0	127
##	2159	2159	62	0	1	0	165.6	81.4	29.7	1	0	141
##	2160	2160	60	1	4	0	172.3	89.7	30.2	1	0	137
##	2161	2161	61	1	1	0	165.9	83.9	30.5	1	0	134
##	2162	2162	57	1	1	0	178.8	72.0	22.5	0	0	126
##	2163	2163	66	1	2	2	177.5	79.0	25.1	1	0	132
##	2164	2164	57	0	3	1	168.0	79.4	28.1	1	0	134
##	2165	2165	59	1	1	0	163.0	77.2	29.0	0	0	121
##	2166	2166	57	1	1	0	170.2	60.5	20.9	0	0	127
##	2167	2167	66	1	3	0	175.5	73.5	23.9	0	0	127
##	2168	2168	59	1	3	0	178.3	86.2	27.1	1	1	135
##	2169	2169	57	1	4	0	159.4	63.6	25.0	1	0	134
##	2170	2170	61	0	1	0	174.0	84.2	27.8	1	0	141
##	2171	2171	59	0	1	0	174.2	78.2	25.8	0	0	126
##	2172	2172	64	0	1	0	174.2	77.8	25.6	1	0	151
##	2173	2173	68	0	4	1	172.9	83.0	27.8	1	0	141
##	2174	2174	68	0	1	0	173.2	82.0	27.3	1	0	136
##	2175	2175	60	0	4	0	169.0	84.7	29.7	0	0	124
##	2176	2176	63	0	3	1	160.1	68.6	26.8	1	0	140
##	2177	2177	65	0	4	1	163.6	85.3	31.9	1	0	138
##	2178	2178	58	1	1	0	178.5	89.6	28.1	0	0	125
##	2179	2179	60	1	1	1	176.9	84.5	27.0	0	0	119
##	2180	2180	69	1	1	0	171.8	80.5	27.3	1	0	139
##	2181	2181	63	0	1	0	168.8	74.0	26.0	1	0	139
##	2182	2182	62	1	1	1	174.2	77.4	25.5	0	0	130
##	2183	2183	65	0	1	1	176.3	81.5	26.2	1	0	137
##	2184	2184	63	0	1	0	173.3	76.3	25.4	1	1	138
##	2185	2185	57	0	1	0	174.6	82.2	26.9	0	0	112
##	2186	2186	61	0	3	0	168.5	81.1	28.6	0	0	125
##	2187	2187	56	0	1	1	167.1	76.0	27.2	1	0	137
##	2188	2188	61	1	1	1	169.5	74.5	25.9	0	0	127
##	2189	2189	62	1	3	0	156.8	73.2	29.8	0	0	117
##	2190	2190	54	0	1	2	164.3	81.8	30.3	0	0	115
##	2191	2191	57	0	4	1	172.3	93.3	31.4	0	1	128
##	2192	2192	62	1	1	0	180.3	87.8	27.0	1	0	132
##	2193	2193	57	0	1	0	160.7	85.8	33.2	1	0	134
##	2194	2194	59	1	1	2	166.2	67.9	24.6	1	0	133
##	2195	2195	67	0	1	0	165.9	75.9	27.6	0	0	130
##	2196	2196	53	1	1	1	169.4	90.0	31.4	0	0	127
##	2197	2197	64	0	3	0	164.4	84.5	31.3	1	1	139
##	2198	2198	58	1	3	1	166.3	75.6	27.3	0	1	126
##	2199	2199	63	1	1	1	180.1	77.7	23.9	0	0	128
##	2200	2200	62	1	1	0	165.9	76.3	27.7	1	0	135

##	2201	2201	54	1	1	1	187.6	78.5	22.3	0	0	129
##	2202	2202	62	0	1	0	168.6	75.0	26.4	0	0	118
##	2203	2203	59	0	1	0	178.1	98.1	30.9	0	0	125
##	2204	2204	60	1	4	0	171.4	79.7	27.1	0	1	129
##	2205	2205	59	0	1	2	166.8	78.8	28.3	1	0	132
##	2206	2206	58	0	1	1	170.1	81.4	28.1	1	0	135
##	2207	2207	60	1	1	0	167.3	78.4	28.0	0	0	128
##	2208	2208	62	1	1	1	177.3	67.3	21.4	1	0	138
##	2209	2209	58	0	1	2	161.8	75.1	28.7	0	0	112
##	2210	2210	59	0	3	0	173.9	90.7	30.0	1	0	138
##	2211	2211	59	1	1	1	173.3	79.4	26.4	1	1	131
##	2212	2212	59	1	1	1	156.4	81.3	33.2	0	0	129
##	2213	2213	62	1	1	0	175.6	80.8	26.2	0	0	125
##	2214	2214	63	0	1	1	173.7	67.0	22.2	0	0	125
##	2215	2215	59	0	1	0	171.3	93.7	31.9	0	0	129
##	2216	2216	64	0	4	0	181.0	82.0	25.0	1	0	134
##	2217	2217	57	1	1	1	168.7	80.4	28.3	1	0	131
##	2218	2218	69	0	4	1	167.2	85.5	30.6	1	0	138
##	2219	2219	61	1	3	1	172.4	78.7	26.5	0	0	126
##	2220	2220	56	0	1	0	169.4	81.7	28.5	1	0	134
##	2221	2221	57	0	1	1	172.2	75.7	25.5	1	0	133
##	2222	2222	64	1	2	1	179.0	77.6	24.2	1	0	135
##	2223	2223	56	0	3	0	166.3	87.2	31.5	0	0	128
##	2224	2224	64	1	3	0	166.6	84.4	30.4	0	0	130
##	2225	2225	66	0	1	0	162.6	67.5	25.5	0	0	126
##	2226	2226	59	0	1	1	175.8	80.4	26.0	0	0	127
##	2227	2227	58	0	3	1	180.1	92.2	28.4	1	0	132
##	2228	2228	61	0	1	0	174.1	84.5	27.9	1	0	132
##	2229	2229	57	0	1	0	175.3	86.1	28.0	0	0	130
##	2230	2230	64	1	1	0	167.4	89.2	31.8	1	0	131
##	2231	2231	59	0	4	0	162.5	84.3	31.9	1	0	139
##	2232	2232	59	0	1	1	169.1	69.7	24.4	1	0	132
##	2233	2233	63	1	1	0	175.5	94.9	30.8	0	0	129
##	2234	2234	64	0	1	2	172.9	83.5	27.9	0	0	129
##	2235	2235	60	0	1	1	165.4	79.0	28.9	1	0	131
##	2236	2236	56	1	3	0	164.5	86.6	32.0	1	0	138
##	2237	2237	59	0	1	0	171.5	82.1	27.9	1	0	140
##	2238	2238	67	1	3	0	167.9	85.1	30.2	1	0	133
##	2239	2239	65	0	4	0	169.3	87.0	30.3	1	0	131
##	2240	2240	59	0	4	2	176.6	76.6	24.6	0	0	120
##	2241	2241	62	0	1	0	168.1	72.9	25.8	0	0	127
##	2242	2242	56	0	4	1	167.1	84.3	30.2	1	0	136
##	2243	2243	64	1	3	1	168.6	76.0	26.7	0	0	122
##	2244	2244	60	0	4	0	159.7	69.2	27.1	1	0	135
##	2245	2245	58	1	1	1	169.7	84.5	29.3	1	0	141
##	2246	2246	57	1	1	0	159.1	79.7	31.5	1	0	138
##	2247	2247	56	0	1	0	163.1	77.1	29.0	0	0	127
##	2248	2248	58	0	1	1	174.0	83.3	27.5	0	0	119
##	2249	2249	55	0	1	0	165.8	85.6	31.2	0	1	128
##	2250	2250	52	1	3	1	178.1	70.3	22.2	0	1	129
##	2251	2251	61	0	4	0	165.7	78.3	28.5	1	0	141
##	2252	2252	58	0	4	0	168.5	74.2	26.1	0	0	119
##	2253	2253	65	1	1	0	167.8	91.1	32.4	1	1	145
##	2254	2254	62	0	3	2	167.8	80.1	28.4	0	0	120

##	2255	2255	58	0	4	1	170.1	82.5	28.5	0	1	125
##	2256	2256	64	0	1	1	163.6	86.7	32.4	0	1	117
##	2257	2257	54	1	1	2	166.0	73.8	26.8	1	0	132
##	2258	2258	53	1	2	1	170.3	85.7	29.5	0	0	124
##	2259	2259	59	1	1	0	164.6	76.7	28.3	1	0	131
##	2260	2260	59	0	1	0	175.6	74.2	24.1	1	0	133
##	2261	2261	65	1	1	1	172.0	75.0	25.4	1	1	138
##	2262	2262	57	1	3	0	173.1	84.1	28.1	0	0	126
##	2263	2263	51	0	3	1	174.3	80.4	26.5	0	0	124
##	2264	2264	58	0	4	1	170.4	87.7	30.2	1	0	137
##	2265	2265	51	0	1	1	167.6	74.6	26.5	0	0	117
##	2266	2266	63	0	1	0	168.2	80.0	28.3	1	0	142
##	2267	2267	66	0	1	1	168.6	74.7	26.3	1	0	134
##	2268	2268	57	0	1	0	173.0	83.1	27.7	1	0	132
##	2269	2269	65	1	3	0	154.6	72.5	30.3	1	0	134
##	2270	2270	63	1	4	0	169.3	78.8	27.5	1	0	135
##	2271	2271	63	0	1	1	172.0	87.1	29.5	1	0	132
##	2272	2272	54	0	1	0	175.8	76.6	24.8	0	1	124
##	2273	2273	60	0	1	0	161.5	77.2	29.6	0	0	117
##	2274	2274	55	1	3	0	157.1	73.5	29.8	1	0	141
##	2275	2275	59	0	1	0	171.5	94.9	32.3	1	0	135
##	2276	2276	65	0	2	1	168.1	72.4	25.6	1	1	133
##	2277	2277	59	0	1	0	182.0	78.1	23.6	1	0	132
##	2278	2278	67	0	1	0	166.7	88.2	31.7	1	0	137
##	2279	2279	65	1	1	0	177.5	86.6	27.5	1	1	146
##	2280	2280	64	0	1	0	158.4	75.5	30.1	0	0	113
##	2281	2281	59	0	1	1	164.3	81.1	30.0	0	0	126
##	2282	2282	61	1	1	1	179.7	75.9	23.5	0	0	128
##	2283	2283	57	1	2	2	175.6	83.7	27.1	0	0	126
##	2284	2284	56	0	1	1	174.8	81.8	26.8	0	0	114
##	2285	2285	61	1	3	1	180.2	73.4	22.6	1	1	131
##	2286	2286	65	0	1	0	163.2	77.0	28.9	1	0	135
##	2287	2287	68	1	4	0	168.8	92.2	32.3	1	0	144
##	2288	2288	54	1	1	0	171.4	82.5	28.1	0	0	106
##	2289	2289	62	1	1	0	175.2	88.3	28.8	0	1	125
##	2290	2290	62	1	3	0	172.3	89.8	30.2	0	1	127
##	2291	2291	62	0	3	0	167.7	84.8	30.2	0	0	129
##	2292	2292	60	1	3	0	167.3	83.7	29.9	0	0	122
##	2293	2293	62	1	1	0	170.1	77.1	26.7	0	0	127
##	2294	2294	65	1	1	0	167.0	87.4	31.3	1	0	144
##	2295	2295	60	1	2	0	173.2	87.4	29.1	0	0	126
##	2296	2296	59	0	2	0	173.0	92.5	30.9	0	0	130
##	2297	2297	57	1	1	1	174.1	80.3	26.5	0	0	114
##	2298	2298	61	0	3	2	169.5	86.3	30.1	1	0	146
##	2299	2299	62	0	1	0	172.4	81.0	27.2	1	0	147
##	2300	2300	62	0	1	0	164.4	80.0	29.6	0	0	127
##	2301	2301	58	0	3	1	180.3	78.1	24.0	1	0	132
##	2302	2302	59	0	3	1	180.4	77.6	23.8	0	0	124
##	2303	2303	53	0	2	0	166.6	93.1	33.6	0	0	130
##	2304	2304	61	0	4	0	162.8	78.7	29.7	1	0	133
##	2305	2305	57	1	1	0	167.6	88.3	31.4	0	0	130
##	2306	2306	61	0	2	0	161.5	75.6	29.0	1	0	133
##	2307	2307	57	0	2	0	182.3	79.7	24.0	0	0	116
##	2308	2308	57	0	1	1	162.8	81.9	30.9	0	1	126

##	2309	2309	55	0	1	1	173.6	76.3	25.3	0	1	120
##	2310	2310	58	1	1	1	164.5	82.8	30.6	1	0	135
##	2311	2311	60	0	1	1	165.7	78.6	28.6	0	0	124
##	2312	2312	60	0	1	0	172.9	76.7	25.7	0	0	126
##	2313	2313	61	1	3	1	161.8	90.1	34.4	0	0	124
##	2314	2314	68	0	1	1	169.7	77.8	27.0	1	0	145
##	2315	2315	62	0	3	1	162.4	75.9	28.8	1	0	132
##	2316	2316	64	1	1	0	163.5	66.8	25.0	0	1	125
##	2317	2317	57	0	1	0	162.6	67.1	25.4	1	1	145
##	2318	2318	65	1	3	0	164.1	88.4	32.8	1	0	133
##	2319	2319	53	1	1	1	161.2	92.1	35.5	0	0	123
##	2320	2320	63	1	3	0	174.8	84.8	27.8	1	0	140
##	2321	2321	58	1	1	1	162.0	86.7	33.1	0	0	126
##	2322	2322	59	0	3	1	159.8	70.9	27.8	0	0	126
##	2323	2323	58	1	3	0	171.3	80.8	27.5	0	1	127
##	2324	2324	60	0	1	1	169.7	86.7	30.1	1	0	131
##	2325	2325	67	1	1	1	169.6	79.0	27.5	1	1	139
##	2326	2326	54	0	1	0	165.8	78.9	28.7	0	0	115
##	2327	2327	60	0	1	0	171.2	84.4	28.8	0	0	125
##	2328	2328	61	1	2	1	167.3	84.8	30.3	1	0	139
##	2329	2329	58	0	1	0	171.8	88.3	29.9	0	0	129
##	2330	2330	68	0	1	1	171.0	92.7	31.7	1	0	141
##	2331	2331	68	1	1	0	167.2	79.2	28.3	1	0	138
##	2332	2332	60	1	1	0	180.8	80.0	24.5	1	0	131
##	2333	2333	63	0	1	0	168.8	76.3	26.8	0	0	119
##	2334	2334	62	0	1	0	167.8	81.2	28.8	0	1	125
##	2335	2335	65	1	1	0	166.5	77.6	28.0	1	1	134
##	2336	2336	62	1	1	0	170.6	80.7	27.8	0	0	125
##	2337	2337	49	0	1	0	178.6	74.9	23.5	0	1	120
##	2338	2338	63	0	3	0	168.5	82.6	29.1	0	0	124
##	2339	2339	53	0	1	1	167.5	86.7	30.9	0	0	121
##	2340	2340	60	1	1	0	164.7	81.1	29.9	1	0	137
##	2341	2341	63	1	3	2	170.4	85.8	29.5	0	0	128
##	2342	2342	61	1	1	0	171.8	80.7	27.3	0	0	129
##	2343	2343	63	1	3	0	165.3	75.3	27.6	0	0	130
##	2344	2344	55	1	1	0	168.1	68.3	24.2	1	0	132
##	2345	2345	61	0	1	2	173.9	86.7	28.6	0	0	127
##	2346	2346	66	0	1	2	160.5	77.5	30.1	1	0	137
##	2347	2347	56	0	3	2	175.8	88.4	28.6	0	0	126
##	2348	2348	64	0	1	2	176.3	80.9	26.0	1	0	132
##	2349	2349	65	0	1	1	168.6	86.1	30.3	1	1	132
##	2350	2350	61	0	1	1	164.3	89.1	33.0	0	1	126
##	2351	2351	59	1	1	0	170.7	79.3	27.2	1	0	139
##	2352	2352	65	0	3	0	173.0	74.1	24.7	0	0	128
##	2353	2353	61	0	1	0	179.1	87.4	27.2	0	0	128
##	2354	2354	59	1	1	0	159.4	74.7	29.4	0	1	129
##	2355	2355	66	1	1	1	161.8	69.5	26.5	1	0	144
##	2356	2356	55	1	1	0	176.9	87.1	27.8	0	0	127
##	2357	2357	63	1	1	0	177.9	84.7	26.8	0	1	128
##	2358	2358	58	0	3	0	173.1	81.3	27.1	1	0	136
##	2359	2359	62	0	1	2	165.0	86.3	31.7	0	0	123
##	2360	2360	67	1	1	0	174.1	99.4	32.8	1	0	135
##	2361	2361	50	0	1	0	159.7	76.5	30.0	0	0	127
##	2362	2362	59	1	1	0	168.7	84.4	29.7	0	0	128

##	2363	2363	66	1	2	0	167.0	93.2	33.4	1	0	134
##	2364	2364	67	0	1	1	172.3	84.1	28.3	1	1	141
##	2365	2365	58	0	4	1	175.5	73.3	23.8	1	0	132
##	2366	2366	63	0	2	1	177.8	78.9	25.0	0	0	125
##	2367	2367	62	1	3	1	174.1	73.3	24.2	0	0	125
##	2368	2368	60	0	4	0	168.5	71.0	25.0	1	0	136
##	2369	2369	57	1	1	0	160.0	73.0	28.5	1	0	133
##	2370	2370	58	1	1	0	176.1	94.8	30.6	0	1	119
##	2371	2371	57	0	1	1	161.8	76.2	29.1	1	0	137
##	2372	2372	59	1	1	0	175.6	83.3	27.0	1	0	135
##	2373	2373	63	0	1	0	169.6	87.6	30.4	0	0	122
##	2374	2374	61	1	1	0	176.3	77.1	24.8	1	0	143
##	2375	2375	58	1	3	0	170.6	75.8	26.0	0	0	129
##	2376	2376	61	0	2	0	171.1	72.5	24.8	1	0	133
##	2377	2377	57	1	1	0	163.5	77.3	28.9	0	0	123
##	2378	2378	56	0	1	1	164.7	81.5	30.1	0	0	129
##	2379	2379	61	1	1	0	172.9	93.9	31.4	0	1	124
##	2380	2380	70	1	1	1	180.7	91.6	28.1	0	0	127
##	2381	2381	59	1	1	0	170.0	84.5	29.2	0	0	124
##	2382	2382	67	1	1	0	161.6	69.5	26.6	1	0	140
##	2383	2383	61	1	1	1	173.4	82.7	27.5	1	0	132
##	2384	2384	63	1	4	2	174.9	82.0	26.8	1	0	141
##	2385	2385	63	0	1	0	159.4	87.1	34.3	1	0	133
##	2386	2386	64	1	1	0	181.4	74.9	22.8	0	0	124
##	2387	2387	54	0	1	0	171.2	87.5	29.9	0	0	122
##	2388	2388	62	0	1	1	178.5	75.4	23.7	0	0	123
##	2389	2389	58	1	1	0	173.1	75.6	25.2	1	0	140
##	2390	2390	49	0	1	0	168.0	81.8	29.0	0	0	111
##	2391	2391	58	0	1	1	166.9	73.7	26.5	0	0	123
##	2392	2392	59	1	3	0	185.6	87.3	25.3	1	0	143
##	2393	2393	58	1	3	0	172.6	74.0	24.8	0	0	116
##	2394	2394	61	0	4	0	178.6	98.5	30.9	0	0	127
##	2395	2395	53	0	1	2	170.6	70.0	24.1	0	0	130
##	2396	2396	62	1	1	0	165.7	80.1	29.2	1	0	133
##	2397	2397	62	1	1	1	167.6	90.8	32.3	0	0	129
##	2398	2398	59	0	1	2	168.9	92.3	32.3	0	0	129
##	2399	2399	57	1	3	1	161.6	70.0	26.8	0	0	112
##	2400	2400	62	1	1	2	164.9	62.2	22.9	1	0	134
##	2401	2401	60	1	3	2	176.1	80.3	25.9	1	1	142
##	2402	2402	57	0	3	0	160.5	74.9	29.1	1	0	133
##	2403	2403	66	0	1	1	166.7	80.8	29.1	1	0	134
##	2404	2404	62	0	1	1	174.7	72.1	23.6	0	0	130
##	2405	2405	60	0	1	0	171.2	88.2	30.1	1	0	131
##	2406	2406	63	1	4	0	173.3	78.4	26.1	1	0	147
##	2407	2407	62	1	4	2	175.8	95.2	30.8	1	0	136
##	2408	2408	53	1	4	0	182.5	77.8	23.4	0	0	125
##	2409	2409	60	0	1	2	176.3	69.1	22.2	0	1	124
##	2410	2410	60	1	3	1	170.7	77.7	26.6	1	0	133
##	2411	2411	60	0	1	0	167.5	71.5	25.5	1	1	132
##	2412	2412	60	0	4	1	169.9	71.6	24.8	0	0	128
##	2413	2413	65	1	1	0	169.6	68.2	23.7	1	0	141
##	2414	2414	65	0	1	0	168.5	75.9	26.7	1	0	137
##	2415	2415	62	0	1	0	173.4	81.5	27.1	0	0	129
##	2416	2416	62	1	4	1	168.9	81.3	28.5	0	0	129

##	2417	2417	63	0	3	1	172.3	77.8	26.2	1	0	132
##	2418	2418	60	0	1	2	167.1	80.9	29.0	0	0	126
##	2419	2419	46	1	1	0	162.4	58.4	22.2	0	0	123
##	2420	2420	62	0	1	0	183.6	86.9	25.8	0	0	125
##	2421	2421	60	0	1	0	173.6	81.1	26.9	1	0	146
##	2422	2422	60	0	1	0	172.8	82.3	27.6	1	0	136
##	2423	2423	63	1	1	2	164.2	87.3	32.4	1	0	134
##	2424	2424	58	0	3	1	176.3	86.4	27.8	0	0	113
##	2425	2425	61	0	4	0	164.8	79.6	29.3	0	0	129
##	2426	2426	54	0	3	0	172.9	84.3	28.2	0	1	112
##	2427	2427	66	1	1	1	182.5	76.2	22.9	1	0	136
##	2428	2428	62	1	4	0	161.6	95.5	36.6	0	0	130
##	2429	2429	59	0	1	0	164.0	78.4	29.1	1	0	132
##	2430	2430	49	0	1	0	169.3	74.8	26.1	0	0	120
##	2431	2431	58	0	1	1	167.1	92.6	33.2	0	0	127
##	2432	2432	58	0	2	0	161.5	88.4	33.9	0	0	123
##	2433	2433	59	0	1	0	159.6	84.5	33.2	0	0	130
##	2434	2434	68	1	1	0	158.9	68.6	27.2	1	0	142
##	2435	2435	60	0	1	0	168.3	75.4	26.6	0	0	123
##	2436	2436	60	1	2	0	176.2	67.9	21.9	1	0	138
##	2437	2437	55	0	4	0	152.9	84.0	35.9	0	0	124
##	2438	2438	65	1	3	1	170.5	78.0	26.8	1	0	140
##	2439	2439	61	0	1	0	171.8	66.2	22.4	1	0	135
##	2440	2440	61	1	3	1	169.2	86.4	30.2	0	0	112
##	2441	2441	63	1	1	0	172.2	69.8	23.5	1	0	134
##	2442	2442	59	1	1	1	155.2	79.2	32.9	1	0	137
##	2443	2443	70	0	1	1	168.4	77.7	27.4	1	0	144
##	2444	2444	65	1	1	1	148.1	78.6	35.9	1	0	147
##	2445	2445	61	1	1	1	164.0	79.7	29.6	1	0	136
##	2446	2446	61	0	1	0	170.0	79.9	27.6	1	0	136
##	2447	2447	63	0	1	0	176.4	84.1	27.0	1	0	140
##	2448	2448	57	1	1	1	168.4	76.5	27.0	0	1	116
##	2449	2449	58	1	1	0	176.7	85.7	27.4	1	0	138
##	2450	2450	58	0	1	0	177.3	91.8	29.2	0	0	121
##	2451	2451	66	0	1	0	172.1	75.3	25.4	1	0	141
##	2452	2452	62	1	1	1	168.6	88.2	31.0	1	0	134
##	2453	2453	60	1	3	2	167.4	85.2	30.4	0	0	123
##	2454	2454	65	1	2	1	162.5	65.1	24.7	1	0	140
##	2455	2455	58	0	4	1	166.6	75.5	27.2	1	0	131
##	2456	2456	62	1	3	0	174.0	78.1	25.8	0	0	119
##	2457	2457	70	1	1	1	167.2	70.2	25.1	1	0	143
##	2458	2458	57	0	1	2	173.8	88.2	29.2	0	0	127
##	2459	2459	64	1	1	0	169.3	69.0	24.1	0	0	129
##	2460	2460	55	0	1	0	163.9	74.1	27.6	0	0	118
##	2461	2461	53	1	1	0	169.4	79.8	27.8	0	0	119
##	2462	2462	55	1	3	1	181.1	79.2	24.2	0	0	105
##	2463	2463	68	0	1	0	168.5	73.7	26.0	1	0	136
##	2464	2464	62	0	1	1	177.2	77.3	24.6	1	0	133
##	2465	2465	63	0	3	1	169.7	88.2	30.6	1	0	132
##	2466	2466	64	0	3	0	171.5	77.3	26.3	1	0	137
##	2467	2467	56	0	1	0	185.9	81.1	23.5	0	0	126
##	2468	2468	63	1	1	0	159.9	76.7	30.0	0	0	128
##	2469	2469	64	1	1	0	172.6	78.1	26.2	1	1	136
##	2470	2470	61	1	1	0	176.4	81.6	26.2	1	0	144

##	2471	2471	64	0	1	0	176.7	90.1	28.9	1	1	139
##	2472	2472	60	1	1	1	178.2	83.2	26.2	0	0	121
##	2473	2473	53	0	1	0	165.8	69.5	25.3	0	0	115
##	2474	2474	64	1	1	1	172.7	71.1	23.8	1	0	136
##	2475	2475	64	1	1	0	167.2	90.2	32.3	1	1	135
##	2476	2476	67	1	1	1	179.9	84.0	26.0	1	1	144
##	2477	2477	59	1	1	0	174.2	88.2	29.1	1	0	139
##	2478	2478	64	0	1	1	168.4	77.8	27.4	1	0	139
##	2479	2479	61	0	3	0	165.9	94.3	34.2	1	0	131
##	2480	2480	57	1	1	0	168.3	78.7	27.8	0	0	126
##	2481	2481	55	0	1	0	163.9	70.4	26.2	1	0	133
##	2482	2482	50	1	1	2	172.6	76.6	25.7	0	0	123
##	2483	2483	50	0	1	2	175.1	78.3	25.5	0	0	117
##	2484	2484	65	0	1	0	159.7	75.1	29.4	0	1	121
##	2485	2485	53	1	3	0	174.1	73.2	24.1	0	1	126
##	2486	2486	60	0	4	0	160.1	78.0	30.4	1	0	135
##	2487	2487	56	1	3	1	176.4	77.2	24.8	1	1	136
##	2488	2488	63	1	2	0	185.5	76.4	22.2	1	0	131
##	2489	2489	57	0	4	1	164.6	77.6	28.7	1	1	135
##	2490	2490	64	0	4	1	164.1	81.9	30.4	1	0	134
##	2491	2491	61	0	1	0	168.9	87.8	30.8	0	0	130
##	2492	2492	59	1	4	1	167.6	76.5	27.3	0	0	118
##	2493	2493	57	0	3	1	178.1	80.3	25.3	1	0	137
##	2494	2494	63	1	2	1	165.1	72.8	26.7	1	0	134
##	2495	2495	56	1	1	0	173.7	88.8	29.4	0	0	110
##	2496	2496	55	1	3	1	174.7	76.5	25.0	1	0	138
##	2497	2497	68	1	1	0	172.8	76.0	25.5	1	0	132
##	2498	2498	65	1	3	0	154.0	75.7	31.9	0	0	124
##	2499	2499	61	0	3	0	179.4	90.6	28.1	1	0	135
##	2500	2500	57	0	3	0	167.4	82.8	29.5	1	0	131
##	2501	2501	63	0	4	0	172.9	88.6	29.6	1	1	132
##	2502	2502	57	0	1	0	177.8	68.7	21.7	1	0	137
##	2503	2503	56	0	1	0	169.2	78.5	27.4	0	1	122
##	2504	2504	62	0	4	2	174.6	79.1	25.9	1	0	132
##	2505	2505	63	0	4	1	167.3	76.0	27.2	0	0	119
##	2506	2506	63	1	4	2	170.4	86.0	29.6	1	1	131
##	2507	2507	60	1	1	2	177.9	78.9	25.0	1	0	135
##	2508	2508	61	1	3	0	180.9	84.3	25.8	1	0	133
##	2509	2509	59	1	1	0	166.7	75.4	27.2	1	0	139
##	2510	2510	66	1	3	0	161.0	60.9	23.5	1	0	141
##	2511	2511	62	0	2	1	165.7	72.7	26.5	1	0	134
##	2512	2512	61	1	1	0	161.4	81.5	31.3	0	0	130
##	2513	2513	54	0	1	0	163.9	72.3	26.9	0	0	129
##	2514	2514	63	1	4	1	164.4	70.6	26.1	1	0	131
##	2515	2515	56	0	3	1	184.5	92.7	27.2	1	0	131
##	2516	2516	63	0	1	1	155.7	72.2	29.8	1	0	139
##	2517	2517	65	1	1	0	169.0	77.9	27.3	1	1	131
##	2518	2518	55	0	1	1	174.6	77.4	25.4	0	0	119
##	2519	2519	52	0	4	0	172.3	84.6	28.5	0	0	126
##	2520	2520	63	0	1	0	163.6	76.0	28.4	0	0	124
##	2521	2521	59	1	1	0	166.1	88.9	32.2	1	0	133
##	2522	2522	58	1	1	0	167.4	77.2	27.6	1	0	139
##	2523	2523	54	1	1	1	170.1	86.7	30.0	1	1	138
##	2524	2524	60	1	3	1	158.2	67.8	27.1	0	0	128

##	2525	2525	53	0	4	0	165.3	79.1	29.0	1	0	136
##	2526	2526	61	0	1	0	163.5	74.9	28.0	0	0	123
##	2527	2527	60	1	1	0	173.8	80.8	26.7	1	0	136
##	2528	2528	60	0	1	1	176.4	77.8	25.0	0	0	119
##	2529	2529	63	1	2	0	176.5	78.2	25.1	1	0	143
##	2530	2530	62	0	1	0	168.6	88.3	31.1	0	0	129
##	2531	2531	59	0	1	0	167.7	76.1	27.1	0	0	126
##	2532	2532	67	0	1	2	170.8	80.3	27.5	1	0	136
##	2533	2533	64	1	1	1	167.7	71.1	25.3	1	0	135
##	2534	2534	56	1	1	0	184.9	75.8	22.2	1	0	131
##	2535	2535	50	1	1	0	165.4	85.2	31.1	0	0	122
##	2536	2536	61	1	1	0	176.4	87.1	28.0	0	0	126
##	2537	2537	59	0	2	0	159.1	68.9	27.2	1	0	135
##	2538	2538	70	0	3	1	180.4	74.1	22.8	0	0	129
##	2539	2539	59	1	3	0	167.1	70.8	25.4	0	0	120
##	2540	2540	57	0	3	2	171.4	80.4	27.4	0	0	126
##	2541	2541	49	0	1	0	171.2	80.8	27.6	0	0	126
##	2542	2542	61	1	4	1	173.3	72.2	24.0	0	0	126
##	2543	2543	60	1	3	1	165.0	80.3	29.5	0	0	125
##	2544	2544	56	1	1	0	172.5	77.3	26.0	0	0	128
##	2545	2545	59	0	1	1	157.8	74.5	29.9	0	0	119
##	2546	2546	52	0	3	1	177.9	71.4	22.6	0	1	126
##	2547	2547	66	0	3	0	166.4	82.6	29.8	0	0	130
##	2548	2548	58	1	4	0	176.5	72.3	23.2	1	0	143
##	2549	2549	60	1	1	0	168.4	85.5	30.2	0	0	121
##	2550	2550	55	1	1	1	171.9	77.6	26.2	0	0	126
##	2551	2551	60	1	1	0	172.1	85.5	28.9	1	0	134
##	2552	2552	59	1	1	2	179.8	81.6	25.2	1	0	131
##	2553	2553	60	1	1	1	181.3	91.0	27.7	0	1	128
##	2554	2554	58	0	1	1	170.4	90.4	31.1	0	0	122
##	2555	2555	61	1	3	0	168.9	70.9	24.9	1	0	133
##	2556	2556	61	1	1	1	172.1	64.6	21.8	0	0	125
##	2557	2557	65	1	1	0	170.3	79.8	27.5	1	1	140
##	2558	2558	65	0	1	1	167.8	92.9	33.0	0	0	129
##	2559	2559	66	0	1	0	155.0	87.6	36.4	1	0	139
##	2560	2560	57	1	1	1	165.8	68.1	24.8	0	0	112
##	2561	2561	52	1	1	0	161.4	81.3	31.2	0	1	115
##	2562	2562	62	1	1	0	167.8	89.6	31.8	0	0	118
##	2563	2563	60	1	3	1	179.6	85.3	26.4	0	0	124
##	2564	2564	57	1	3	1	175.0	89.8	29.3	1	1	139
##	2565	2565	59	1	3	0	168.1	86.8	30.7	0	0	118
##	2566	2566	57	0	3	0	173.8	75.6	25.0	0	1	126
##	2567	2567	61	0	4	1	164.6	79.9	29.5	1	0	138
##	2568	2568	68	0	1	0	173.8	69.2	22.9	0	0	129
##	2569	2569	65	1	2	0	182.3	81.9	24.7	1	0	141
##	2570	2570	62	0	1	0	168.6	77.3	27.2	1	0	131
##	2571	2571	61	1	1	1	173.1	74.4	24.8	0	0	130
##	2572	2572	54	0	3	0	170.5	79.4	27.3	0	1	119
##	2573	2573	57	0	1	0	168.7	78.1	27.5	0	0	126
##	2574	2574	54	1	4	0	162.8	75.1	28.3	1	0	132
##	2575	2575	57	0	1	0	165.0	78.2	28.7	0	0	117
##	2576	2576	62	0	1	0	166.5	84.3	30.4	0	0	126
##	2577	2577	58	0	1	1	169.4	79.4	27.6	1	1	132
##	2578	2578	65	0	1	0	172.2	82.4	27.8	0	0	127

##	2579	2579	61	1	1	1	170.4	88.8	30.6	1	0	144
##	2580	2580	62	1	1	0	166.9	94.7	34.0	1	1	131
##	2581	2581	58	1	3	0	171.2	78.1	26.7	1	0	134
##	2582	2582	61	1	1	2	174.2	93.4	30.8	1	1	138
##	2583	2583	58	1	1	0	167.8	81.3	28.9	1	0	132
##	2584	2584	64	1	1	1	163.6	81.4	30.4	1	0	135
##	2585	2585	59	1	3	0	176.1	77.4	25.0	1	0	133
##	2586	2586	57	1	3	1	173.3	87.0	29.0	1	0	140
##	2587	2587	62	1	1	0	163.1	83.8	31.5	1	0	139
##	2588	2588	55	1	1	0	172.3	90.5	30.5	0	0	122
##	2589	2589	63	0	1	0	169.6	74.1	25.8	1	0	139
##	2590	2590	59	1	1	0	166.6	72.7	26.2	1	0	131
##	2591	2591	60	0	1	1	172.5	93.1	31.3	0	0	126
##	2592	2592	59	1	3	0	167.1	85.1	30.5	0	0	115
##	2593	2593	49	1	1	0	171.8	67.9	23.0	0	1	121
##	2594	2594	54	0	1	0	170.1	62.6	21.6	0	0	115
##	2595	2595	61	0	1	1	166.4	71.7	25.9	1	0	143
##	2596	2596	58	0	3	2	178.7	92.4	28.9	0	0	127
##	2597	2597	67	0	1	1	171.5	83.2	28.3	1	0	138
##	2598	2598	63	1	4	0	157.5	73.8	29.8	0	1	128
##	2599	2599	58	0	1	2	168.1	77.8	27.5	0	0	130
##	2600	2600	66	1	1	1	176.8	93.1	29.8	1	0	136
##	2601	2601	60	0	1	0	167.4	75.8	27.1	1	0	138
##	2602	2602	58	1	1	0	168.7	78.9	27.7	0	0	130
##	2603	2603	58	1	3	1	171.1	86.3	29.5	1	0	144
##	2604	2604	61	1	4	1	176.4	79.5	25.5	1	0	140
##	2605	2605	65	1	1	1	170.8	74.8	25.6	1	0	132
##	2606	2606	63	1	3	0	171.9	69.7	23.6	1	0	144
##	2607	2607	63	1	1	0	169.6	73.0	25.4	0	0	128
##	2608	2608	61	1	1	0	174.4	82.9	27.2	1	0	139
##	2609	2609	58	0	1	0	168.7	76.0	26.7	0	0	129
##	2610	2610	60	1	1	0	168.7	74.6	26.2	0	0	116
##	2611	2611	56	1	3	1	176.7	79.4	25.5	0	0	129
##	2612	2612	65	0	1	0	178.3	86.5	27.2	0	0	126
##	2613	2613	58	0	4	0	167.2	70.8	25.3	0	0	124
##	2614	2614	64	1	1	0	149.2	78.5	35.3	0	0	126
##	2615	2615	54	0	1	0	167.0	74.4	26.7	0	0	121
##	2616	2616	52	1	3	0	165.8	72.7	26.5	0	0	110
##	2617	2617	59	1	1	1	167.8	65.6	23.3	1	1	133
##	2618	2618	54	0	1	1	166.4	82.7	29.8	0	0	121
##	2619	2619	56	1	1	2	175.8	83.9	27.2	1	0	138
##	2620	2620	65	1	1	2	177.9	68.1	21.5	1	0	133
##	2621	2621	60	0	1	2	163.6	74.4	27.8	0	0	128
##	2622	2622	58	1	3	1	164.2	80.5	29.9	1	1	134
##	2623	2623	57	1	3	1	177.7	80.9	25.6	0	0	122
##	2624	2624	62	0	3	2	164.3	79.0	29.3	1	0	133
##	2625	2625	64	0	3	1	172.8	76.8	25.7	1	0	135
##	2626	2626	60	0	1	1	171.4	76.8	26.1	0	0	127
##	2627	2627	58	0	3	1	159.6	75.2	29.5	1	1	144
##	2628	2628	58	0	1	0	174.4	75.3	24.8	1	0	147
##	2629	2629	55	1	2	1	170.5	85.9	29.5	0	0	130
##	2630	2630	64	0	4	0	178.9	89.2	27.9	1	0	132
##	2631	2631	55	1	1	0	170.7	71.9	24.7	0	0	122
##	2632	2632	58	1	4	1	163.5	73.3	27.4	1	0	139

##	2633	2633	61	0	4	0	166.0	79.5	28.8	1	0	131
##	2634	2634	62	1	1	0	168.0	69.7	24.7	1	0	132
##	2635	2635	56	1	3	0	169.2	84.4	29.5	0	0	122
##	2636	2636	63	1	3	1	174.5	80.8	26.5	1	0	143
##	2637	2637	59	1	4	1	172.5	75.6	25.4	0	0	120
##	2638	2638	62	0	1	0	168.2	71.2	25.2	1	0	145
##	2639	2639	62	0	4	1	176.2	77.8	25.1	1	0	131
##	2640	2640	57	1	1	0	171.2	74.8	25.5	1	0	132
##	2641	2641	65	1	1	0	168.8	89.3	31.3	0	0	129
##	2642	2642	67	0	1	0	163.6	77.2	28.9	1	0	141
##	2643	2643	64	1	3	0	165.5	89.1	32.5	0	0	130
##	2644	2644	61	0	1	0	171.0	82.5	28.2	1	0	144
##	2645	2645	55	1	2	0	173.3	75.7	25.2	0	0	126
##	2646	2646	52	0	1	1	168.2	84.5	29.9	0	0	113
##	2647	2647	68	1	1	1	172.8	88.3	29.5	1	0	137
##	2648	2648	56	0	1	0	180.1	78.5	24.2	1	0	133
##	2649	2649	56	1	1	1	173.5	81.5	27.0	0	0	115
##	2650	2650	77	0	2	1	167.1	80.6	28.8	1	0	142
##	2651	2651	61	1	1	1	156.9	65.6	26.6	0	1	126
##	2652	2652	67	0	1	0	163.8	70.5	26.3	0	0	124
##	2653	2653	61	0	1	1	164.5	82.2	30.4	1	0	131
##	2654	2654	53	1	1	2	167.0	75.7	27.2	0	0	124
##	2655	2655	58	1	1	1	173.9	90.1	29.8	0	0	124
##	2656	2656	64	1	1	0	173.2	79.7	26.6	1	0	133
##	2657	2657	66	0	1	1	163.8	59.1	22.0	1	0	131
##	2658	2658	58	1	1	0	174.3	84.1	27.7	1	0	134
##	2659	2659	70	0	1	0	175.5	97.2	31.6	1	0	136
##	2660	2660	53	1	1	0	166.5	83.0	29.9	0	0	118
##	2661	2661	62	1	4	1	166.2	65.9	23.9	0	0	124
##	2662	2662	56	1	3	2	168.6	88.2	31.0	0	0	122
##	2663	2663	57	1	1	2	182.8	91.2	27.3	0	0	124
##	2664	2664	63	0	1	1	171.4	83.8	28.5	1	0	139
##	2665	2665	63	1	3	0	165.6	80.0	29.2	1	0	135
##	2666	2666	58	1	1	1	167.4	68.3	24.4	0	0	130
##	2667	2667	62	0	3	0	169.5	88.9	30.9	1	0	139
##	2668	2668	54	1	3	1	171.7	79.7	27.0	0	0	126
##	2669	2669	60	0	1	0	163.5	73.0	27.3	1	0	137
##	2670	2670	56	0	1	0	170.9	73.8	25.3	0	0	122
##	2671	2671	63	1	1	0	172.6	83.2	27.9	1	0	135
##	2672	2672	64	0	1	2	164.4	82.1	30.4	0	0	127
##	2673	2673	61	0	4	0	160.8	72.9	28.2	1	0	135
##	2674	2674	60	0	1	0	174.5	82.5	27.1	1	0	142
##	2675	2675	66	1	1	0	177.1	79.7	25.4	1	0	145
##	2676	2676	65	0	1	0	173.2	78.4	26.1	0	0	127
##	2677	2677	63	1	1	0	172.7	96.9	32.5	1	0	135
##	2678	2678	65	1	3	0	172.0	80.2	27.1	1	0	141
##	2679	2679	60	0	1	2	168.9	86.2	30.2	1	0	149
##	2680	2680	63	0	3	0	165.3	88.5	32.4	0	0	129
##	2681	2681	58	1	1	0	175.7	69.2	22.4	0	0	130
##	2682	2682	60	1	2	0	173.3	71.1	23.7	0	0	126
##	2683	2683	61	1	1	0	164.0	87.0	32.4	0	0	127
##	2684	2684	53	0	1	0	154.2	78.3	32.9	0	0	118
##	2685	2685	73	0	1	1	170.3	79.0	27.2	1	0	138
##	2686	2686	59	0	1	0	172.8	79.2	26.5	1	0	133

##	2687	2687	66	0	1	0	164.0	66.3	24.7	1	0	134
##	2688	2688	59	1	3	0	169.5	80.2	27.9	1	0	138
##	2689	2689	63	1	1	0	173.1	81.0	27.0	0	1	127
##	2690	2690	55	0	1	0	165.2	66.8	24.5	0	1	130
##	2691	2691	58	0	3	0	170.5	80.1	27.5	0	0	124
##	2692	2692	58	0	3	1	172.2	87.2	29.4	0	0	123
##	2693	2693	59	0	4	0	155.8	80.8	33.3	0	0	122
##	2694	2694	62	1	1	0	165.3	87.8	32.1	1	1	131
##	2695	2695	57	0	3	0	175.4	82.5	26.8	1	1	133
##	2696	2696	58	0	1	0	170.8	89.7	30.8	0	1	110
##	2697	2697	53	1	3	0	173.6	84.1	27.9	0	0	121
##	2698	2698	59	0	4	0	174.4	90.3	29.7	1	0	136
##	2699	2699	59	0	1	1	176.4	79.7	25.6	1	0	131
##	2700	2700	59	1	1	0	162.9	60.5	22.8	0	0	130
##	2701	2701	59	0	1	1	170.1	80.4	27.8	0	0	126
##	2702	2702	51	0	1	1	164.1	67.9	25.2	0	1	114
##	2703	2703	55	0	2	2	173.5	74.1	24.6	0	0	126
##	2704	2704	63	0	2	0	166.1	78.4	28.4	1	0	136
##	2705	2705	63	1	1	0	169.3	88.2	30.8	1	0	141
##	2706	2706	65	0	1	1	173.3	81.4	27.1	1	0	134
##	2707	2707	63	0	4	0	162.5	93.1	35.2	0	0	128
##	2708	2708	63	0	1	2	168.4	88.3	31.1	0	0	130
##	2709	2709	66	1	1	0	176.6	84.6	27.1	0	0	125
##	2710	2710	61	1	1	1	157.3	79.4	32.1	1	0	132
##	2711	2711	64	0	1	0	166.8	79.0	28.4	0	0	130
##	2712	2712	68	1	1	2	170.3	82.9	28.6	1	1	137
##	2713	2713	61	0	3	0	172.9	86.5	28.9	0	0	121
##	2714	2714	65	1	1	0	169.3	83.8	29.2	1	1	132
##	2715	2715	61	0	1	0	174.4	89.2	29.3	0	0	118
##	2716	2716	59	1	3	0	164.8	84.7	31.2	0	1	124
##	2717	2717	60	0	1	1	168.6	73.4	25.8	0	0	129
##	2718	2718	69	1	3	0	178.8	93.7	29.3	1	1	134
##	2719	2719	61	1	3	0	176.7	87.7	28.1	0	0	128
##	2720	2720	58	1	3	1	173.5	77.5	25.7	0	0	124
##	2721	2721	64	0	1	1	165.1	87.9	32.2	1	0	138
##	2722	2722	58	0	3	2	178.8	95.6	29.9	0	1	127
##	2723	2723	63	1	1	1	172.8	74.9	25.1	1	0	136
##	2724	2724	57	0	3	1	175.6	83.1	27.0	0	0	125
##	2725	2725	61	1	1	0	175.5	95.7	31.1	0	0	129
##	2726	2726	57	0	1	0	170.1	85.2	29.4	0	0	130
##	2727	2727	61	1	1	0	176.7	83.1	26.6	1	0	131
##	2728	2728	66	1	2	1	177.9	86.2	27.2	1	0	140
##	2729	2729	63	0	1	1	175.1	78.8	25.7	1	0	134
##	2730	2730	71	1	1	0	170.3	75.5	26.0	1	1	147
##	2731	2731	58	0	3	1	160.8	75.5	29.2	1	0	135
##	2732	2732	53	0	1	1	174.5	84.6	27.8	0	0	121
##	2733	2733	62	0	1	0	167.6	80.4	28.6	0	0	128
##	2734	2734	62	0	1	0	162.1	84.1	32.0	1	0	136
##	2735	2735	64	0	4	0	176.7	81.3	26.0	1	0	135
##	2736	2736	69	1	1	0	162.3	71.3	27.1	1	0	140
##	2737	2737	60	1	1	1	176.9	76.0	24.3	1	0	137
##	2738	2738	59	0	1	2	169.6	69.9	24.3	0	0	121
##	2739	2739	63	1	1	0	177.2	84.8	27.0	1	0	135
##	2740	2740	59	1	1	0	171.6	83.1	28.2	0	1	129

##	2741	2741	67	0	1	2	168.9	75.5	26.5	0	0	128
##	2742	2742	58	0	1	0	173.5	80.4	26.7	0	0	114
##	2743	2743	65	1	1	0	181.0	90.4	27.6	1	0	139
##	2744	2744	57	0	1	0	184.2	81.4	24.0	0	0	119
##	2745	2745	61	0	3	1	171.4	81.3	27.7	1	0	134
##	2746	2746	68	0	2	0	174.0	83.3	27.5	1	1	131
##	2747	2747	56	1	3	0	175.9	85.9	27.8	0	0	127
##	2748	2748	59	0	1	1	167.4	75.1	26.8	1	0	137
##	2749	2749	53	0	1	1	170.5	77.4	26.6	0	0	128
##	2750	2750	60	1	4	1	169.7	86.0	29.9	1	0	135
##	2751	2751	63	0	1	1	181.1	84.2	25.7	1	1	139
##	2752	2752	58	1	2	0	170.3	76.2	26.3	0	0	127
##	2753	2753	67	1	1	1	180.3	97.0	29.8	1	0	146
##	2754	2754	58	1	1	0	169.6	68.8	23.9	0	0	125
##	2755	2755	59	1	1	2	184.7	76.1	22.3	1	0	133
##	2756	2756	65	1	1	0	164.1	68.5	25.5	1	0	142
##	2757	2757	62	1	3	1	166.6	78.0	28.1	0	0	119
##	2758	2758	62	0	1	1	182.5	63.9	19.2	1	0	140
##	2759	2759	62	0	3	2	169.0	74.7	26.2	0	1	122
##	2760	2760	53	1	1	1	180.0	87.1	26.9	0	0	118
##	2761	2761	58	1	3	0	169.3	84.5	29.5	0	0	121
##	2762	2762	57	1	3	1	180.4	90.6	27.8	1	0	131
##	2763	2763	60	0	1	0	166.1	67.3	24.4	0	0	119
##	2764	2764	61	0	2	2	161.4	79.6	30.6	0	1	129
##	2765	2765	56	0	1	0	175.3	81.4	26.5	1	1	142
##	2766	2766	58	1	1	1	182.8	83.9	25.1	1	1	141
##	2767	2767	67	0	4	1	169.4	80.3	28.0	1	0	135
##	2768	2768	59	1	4	0	172.7	71.8	24.1	0	0	127
##	2769	2769	53	0	3	1	159.0	80.2	31.7	1	0	132
##	2770	2770	53	1	1	0	172.3	75.0	25.3	1	0	141
##	2771	2771	54	0	3	1	170.1	84.7	29.3	0	0	113
##	2772	2772	54	1	1	0	169.0	78.9	27.6	0	1	124
##	2773	2773	62	0	1	0	170.1	80.2	27.7	1	0	146
##	2774	2774	64	0	1	0	170.4	79.2	27.2	1	1	133
##	2775	2775	53	0	1	0	170.1	84.7	29.3	0	0	127
##	2776	2776	58	0	1	0	168.4	76.6	27.0	0	0	125
##	2777	2777	56	1	1	0	174.8	87.0	28.5	0	0	114
##	2778	2778	65	1	1	1	173.1	73.6	24.6	1	0	136
##	2779	2779	58	1	3	0	173.7	66.9	22.2	0	0	127
##	2780	2780	57	1	3	1	164.0	90.2	33.5	0	0	122
##	2781	2781	73	0	1	0	175.7	68.2	22.1	0	0	129
##	2782	2782	63	1	1	0	175.9	83.7	27.0	1	1	139
##	2783	2783	59	1	1	0	165.3	74.4	27.2	1	0	133
##	2784	2784	55	0	1	0	169.2	84.7	29.6	0	0	125
##	2785	2785	55	1	1	0	172.2	75.9	25.6	1	1	138
##	2786	2786	66	1	4	0	170.1	89.3	30.9	0	0	127
##	2787	2787	62	1	1	1	172.9	84.9	28.4	1	0	138
##	2788	2788	65	0	4	0	181.8	79.1	23.9	1	0	138
##	2789	2789	53	0	1	1	166.2	75.2	27.2	1	1	131
##	2790	2790	57	0	1	1	166.9	81.5	29.3	0	0	125
##	2791	2791	61	1	1	1	161.6	77.3	29.6	1	0	139
##	2792	2792	60	0	3	1	174.7	81.0	26.5	1	0	141
##	2793	2793	67	1	1	1	169.1	76.5	26.7	0	0	122
##	2794	2794	59	0	1	0	169.5	80.0	27.9	0	0	127

##	2795	2795	62	1	1	0	159.5	82.6	32.5	0	0	128
##	2796	2796	62	0	1	1	164.4	73.6	27.2	1	0	132
##	2797	2797	58	1	1	0	172.8	82.6	27.7	1	0	138
##	2798	2798	60	1	1	0	166.9	80.5	28.9	0	0	115
##	2799	2799	51	0	4	1	161.5	75.2	28.8	0	0	120
##	2800	2800	60	0	1	2	165.5	78.0	28.5	1	0	137
##	2801	2801	61	1	1	0	174.8	85.2	27.9	1	0	135
##	2802	2802	57	0	1	0	167.1	84.1	30.1	0	1	130
##	2803	2803	62	1	1	0	172.5	73.3	24.7	0	1	105
##	2804	2804	70	1	3	0	163.8	81.6	30.4	1	0	147
##	2805	2805	66	0	1	0	178.8	87.9	27.5	0	0	125
##	2806	2806	61	0	1	0	176.8	68.7	22.0	1	0	133
##	2807	2807	63	0	1	1	168.1	94.2	33.4	0	0	124
##	2808	2808	67	0	1	0	163.5	73.0	27.3	1	0	135
##	2809	2809	60	1	1	0	173.9	84.4	27.9	0	0	128
##	2810	2810	67	1	2	0	176.4	79.9	25.7	1	0	147
##	2811	2811	57	0	4	0	173.9	78.2	25.9	1	0	137
##	2812	2812	64	1	4	0	177.5	82.6	26.2	1	0	133
##	2813	2813	55	1	1	0	166.6	72.8	26.2	0	0	128
##	2814	2814	60	0	2	1	169.0	93.5	32.7	1	0	135
##	2815	2815	60	0	1	0	168.4	82.1	29.0	0	0	129
##	2816	2816	53	0	1	0	178.4	90.3	28.4	0	0	128
##	2817	2817	64	0	2	1	156.7	88.9	36.2	0	0	128
##	2818	2818	55	1	1	0	166.8	70.6	25.4	0	0	128
##	2819	2819	57	0	1	0	176.8	80.5	25.7	1	0	132
##	2820	2820	60	0	1	1	167.7	83.8	29.8	1	0	132
##	2821	2821	58	0	1	0	177.2	69.1	22.0	1	1	131
##	2822	2822	66	1	3	0	165.1	69.3	25.4	1	0	137
##	2823	2823	60	1	4	0	166.5	72.6	26.2	1	0	136
##	2824	2824	50	1	1	0	172.8	94.2	31.6	0	0	127
##	2825	2825	63	0	4	0	165.8	82.0	29.8	0	0	130
##	2826	2826	54	1	1	0	163.1	84.2	31.7	0	0	127
##	2827	2827	60	1	1	0	176.0	89.1	28.7	1	0	138
##	2828	2828	58	0	3	1	170.4	84.7	29.2	0	0	129
##	2829	2829	59	0	3	0	170.0	81.2	28.1	0	1	125
##	2830	2830	61	1	1	0	168.9	81.8	28.7	0	0	126
##	2831	2831	56	1	3	0	169.6	81.4	28.3	0	0	129
##	2832	2832	48	0	2	0	166.8	82.3	29.6	0	1	123
##	2833	2833	56	0	1	0	164.4	80.9	29.9	0	0	126
##	2834	2834	61	1	1	1	175.4	73.4	23.9	0	0	125
##	2835	2835	56	1	3	1	174.8	82.7	27.1	0	0	128
##	2836	2836	50	0	1	0	160.7	79.2	30.6	1	0	133
##	2837	2837	60	1	1	1	168.1	84.2	29.8	0	0	123
##	2838	2838	65	1	3	1	171.1	81.0	27.7	1	0	134
##	2839	2839	64	1	1	2	158.9	81.1	32.1	0	0	127
##	2840	2840	59	1	1	2	169.9	78.7	27.3	0	0	129
##	2841	2841	67	0	1	0	175.9	85.0	27.5	1	0	133
##	2842	2842	56	0	4	0	175.5	89.3	29.0	0	0	123
##	2843	2843	67	1	1	0	169.9	77.4	26.8	1	0	142
##	2844	2844	57	1	2	0	174.6	87.5	28.7	1	0	146
##	2845	2845	58	0	1	1	158.2	70.6	28.2	0	0	127
##	2846	2846	62	1	1	2	170.0	68.3	23.6	0	0	124
##	2847	2847	53	0	1	0	165.6	86.2	31.5	0	0	126
##	2848	2848	53	0	3	0	166.0	77.8	28.3	0	0	124

##	2849	2849	65	0	1	0	164.6	65.7	24.2	1	0	140
##	2850	2850	54	1	1	0	167.8	73.2	26.0	1	1	132
##	2851	2851	68	1	3	2	175.3	87.7	28.6	0	0	130
##	2852	2852	64	0	1	0	172.8	68.6	23.0	0	0	123
##	2853	2853	58	0	3	0	169.6	80.4	28.0	1	0	136
##	2854	2854	67	0	3	0	174.7	83.7	27.4	1	1	138
##	2855	2855	60	1	3	0	169.8	89.2	30.9	0	0	124
##	2856	2856	56	1	1	2	163.5	87.7	32.8	0	0	130
##	2857	2857	53	0	4	2	176.7	78.2	25.1	0	1	128
##	2858	2858	63	0	1	0	171.8	84.6	28.6	1	0	136
##	2859	2859	63	0	4	2	172.9	81.7	27.3	1	0	141
##	2860	2860	69	0	1	2	165.0	73.1	26.8	0	0	128
##	2861	2861	66	0	1	2	174.5	76.6	25.2	1	0	140
##	2862	2862	63	1	1	1	175.2	88.3	28.8	1	0	138
##	2863	2863	62	0	3	1	181.7	87.2	26.4	1	0	152
##	2864	2864	64	0	1	0	173.1	67.2	22.4	1	0	145
##	2865	2865	51	1	3	2	168.2	82.8	29.3	0	0	125
##	2866	2866	52	1	2	0	177.8	80.6	25.5	0	0	115
##	2867	2867	61	0	1	0	170.2	66.0	22.8	1	0	132
##	2868	2868	61	1	1	0	179.5	80.6	25.0	0	0	129
##	2869	2869	63	1	1	2	177.4	77.8	24.7	0	0	122
##	2870	2870	64	0	1	0	171.0	73.8	25.3	1	0	135
##	2871	2871	56	0	1	0	176.6	80.6	25.9	0	1	130
##	2872	2872	54	1	1	0	166.2	78.7	28.5	0	0	118
##	2873	2873	64	0	3	2	183.6	83.3	24.7	1	0	142
##	2874	2874	56	1	4	0	170.3	79.5	27.4	0	0	124
##	2875	2875	49	0	3	0	163.7	68.3	25.5	0	0	122
##	2876	2876	57	1	1	0	172.2	74.8	25.2	0	0	128
##	2877	2877	64	1	1	0	178.1	81.5	25.7	1	0	134
##	2878	2878	52	1	1	1	165.1	88.3	32.4	1	0	135
##	2879	2879	57	1	1	0	163.9	75.6	28.1	0	0	110
##	2880	2880	67	0	1	1	165.4	66.6	24.4	1	1	141
##	2881	2881	59	1	1	0	163.7	89.3	33.3	0	0	130
##	2882	2882	66	1	1	1	169.9	86.3	29.9	1	1	139
##	2883	2883	63	1	1	1	176.6	81.6	26.2	1	0	141
##	2884	2884	56	0	1	0	172.4	78.6	26.5	0	0	127
##	2885	2885	57	0	1	0	169.7	87.3	30.3	0	1	116
##	2886	2886	74	0	3	2	165.4	78.1	28.6	1	0	141
##	2887	2887	63	0	4	0	163.2	84.4	31.7	1	1	131
##	2888	2888	60	0	3	0	156.3	69.8	28.6	0	1	116
##	2889	2889	63	0	1	0	170.4	83.2	28.7	1	0	133
##	2890	2890	62	1	1	0	180.6	74.2	22.7	0	0	126
##	2891	2891	57	1	1	1	170.8	73.2	25.1	0	0	126
##	2892	2892	61	1	2	0	157.4	81.6	32.9	1	0	132
##	2893	2893	57	1	1	0	177.0	78.2	24.9	0	1	130
##	2894	2894	54	0	1	0	170.8	81.8	28.0	0	0	125
##	2895	2895	64	0	1	1	178.3	83.9	26.4	0	0	127
##	2896	2896	63	0	1	2	174.8	84.1	27.5	1	0	136
##	2897	2897	62	1	1	2	160.3	63.8	24.8	1	0	139
##	2898	2898	59	0	3	1	163.2	71.8	26.9	0	0	126
##	2899	2899	66	0	4	0	169.3	69.3	24.2	1	0	139
##	2900	2900	62	1	2	0	171.2	79.7	27.2	1	0	137
##	2901	2901	60	1	3	1	167.4	72.6	25.9	1	0	145
##	2902	2902	63	0	1	0	166.7	77.8	28.0	1	0	137

##	2903	2903	54	1	1	0	172.5	63.3	21.3	0	0	118
##	2904	2904	64	1	4	2	172.7	82.1	27.5	1	0	131
##	2905	2905	59	1	1	0	170.7	74.2	25.5	0	0	129
##	2906	2906	56	1	1	1	173.0	84.7	28.3	1	0	132
##	2907	2907	56	0	1	0	174.4	92.4	30.4	0	0	129
##	2908	2908	54	1	3	0	172.6	88.2	29.6	0	0	125
##	2909	2909	55	1	1	2	159.6	79.8	31.3	0	0	125
##	2910	2910	55	1	1	0	170.2	77.9	26.9	0	0	115
##	2911	2911	59	0	1	1	168.4	59.1	20.9	0	0	128
##	2912	2912	60	0	1	1	168.8	80.2	28.1	1	1	131
##	2913	2913	55	1	3	0	161.9	66.2	25.3	0	0	128
##	2914	2914	66	1	1	1	170.3	67.9	23.4	1	0	141
##	2915	2915	63	0	1	0	176.4	82.5	26.5	0	0	130
##	2916	2916	58	0	1	1	164.3	85.1	31.5	0	0	128
##	2917	2917	59	0	1	0	174.7	74.4	24.4	0	0	123
##	2918	2918	64	1	3	0	173.4	84.6	28.2	0	0	127
##	2919	2919	59	0	3	2	173.4	80.9	26.9	0	0	115
##	2920	2920	55	1	3	0	172.2	91.5	30.9	0	1	124
##	2921	2921	63	0	1	2	169.1	77.4	27.0	0	0	129
##	2922	2922	57	0	1	1	173.7	91.0	30.2	0	0	120
##	2923	2923	59	1	1	0	158.5	72.8	29.0	0	0	126
##	2924	2924	60	0	3	2	168.2	79.4	28.0	0	0	116
##	2925	2925	58	0	3	1	169.3	67.3	23.5	0	0	117
##	2926	2926	59	1	2	0	166.2	71.9	26.0	1	0	133
##	2927	2927	62	0	1	0	167.3	83.7	29.9	1	0	131
##	2928	2928	61	0	1	0	166.8	68.3	24.6	0	0	118
##	2929	2929	54	0	1	0	164.9	75.7	27.8	0	0	108
##	2930	2930	54	1	1	0	169.0	86.0	30.1	0	0	127
##	2931	2931	61	0	1	1	169.4	90.6	31.6	0	0	114
##	2932	2932	70	0	2	0	162.9	86.4	32.5	1	0	133
##	2933	2933	57	1	1	2	170.8	92.4	31.7	1	0	136
##	2934	2934	57	1	4	0	171.6	83.6	28.4	0	1	129
##	2935	2935	64	0	1	1	173.5	84.2	28.0	1	1	135
##	2936	2936	62	0	1	1	167.1	79.0	28.3	1	0	133
##	2937	2937	62	1	3	0	165.7	68.4	24.9	0	0	128
##	2938	2938	61	1	1	0	160.5	73.7	28.6	0	0	129
##	2939	2939	57	1	3	2	178.6	87.8	27.5	0	0	126
##	2940	2940	56	1	1	0	169.9	95.6	33.1	0	0	124
##	2941	2941	61	0	3	1	178.9	68.6	21.4	1	0	134
##	2942	2942	63	0	1	0	166.6	82.1	29.6	1	0	133
##	2943	2943	62	0	1	1	177.2	87.0	27.7	0	0	118
##	2944	2944	62	1	4	1	171.2	86.5	29.5	0	1	129
##	2945	2945	66	0	3	0	170.7	61.9	21.2	1	1	140
##	2946	2946	58	0	4	1	167.4	81.7	29.2	0	1	122
##	2947	2947	60	0	3	0	165.3	84.7	31.0	0	0	127
##	2948	2948	59	1	1	0	175.8	71.2	23.0	0	0	124
##	2949	2949	65	0	1	1	175.4	70.2	22.8	0	0	127
##	2950	2950	56	0	1	0	169.0	81.1	28.4	0	0	120
##	2951	2951	54	1	1	1	164.6	78.1	28.8	0	0	130
##	2952	2952	53	1	3	0	160.9	74.2	28.7	1	0	134
##	2953	2953	60	0	1	2	178.5	92.6	29.1	0	0	127
##	2954	2954	59	1	1	2	170.9	76.7	26.3	1	0	135
##	2955	2955	65	1	4	1	186.2	84.4	24.4	0	0	130
##	2956	2956	68	0	1	0	165.5	83.1	30.3	0	0	125

##	2957	2957	47	0	1	0	176.9	79.2	25.3	0	0	124
##	2958	2958	61	0	1	0	171.4	91.8	31.2	1	0	138
##	2959	2959	65	0	1	1	165.7	78.6	28.6	1	0	137
##	2960	2960	65	1	1	1	171.1	80.5	27.5	0	0	127
##	2961	2961	67	0	2	0	170.1	75.8	26.2	0	1	123
##	2962	2962	64	1	1	2	175.8	72.3	23.4	0	0	123
##	2963	2963	67	1	1	1	168.7	80.4	28.2	1	1	137
##	2964	2964	75	0	1	1	170.9	74.3	25.4	1	0	144
##	2965	2965	62	0	1	0	164.2	82.1	30.4	0	0	130
##	2966	2966	60	1	1	2	159.8	82.5	32.3	1	0	133
##	2967	2967	63	1	1	0	164.5	87.6	32.3	1	0	133
##	2968	2968	59	0	1	0	158.3	83.9	33.5	0	0	130
##	2969	2969	61	1	1	0	177.2	79.5	25.3	0	0	128
##	2970	2970	57	0	1	0	168.5	76.2	26.8	0	0	130
##	2971	2971	60	0	1	1	170.8	77.5	26.5	1	0	133
##	2972	2972	63	1	1	1	167.0	70.9	25.4	1	0	133
##	2973	2973	66	1	3	1	163.1	76.4	28.7	1	0	136
##	2974	2974	51	1	1	0	159.6	66.9	26.3	0	0	125
##	2975	2975	66	1	1	0	164.0	93.5	34.8	1	0	134
##	2976	2976	60	0	3	0	163.4	81.1	30.4	0	0	122
##	2977	2977	64	0	1	0	167.6	88.5	31.5	1	0	135
##	2978	2978	64	0	1	2	171.7	74.5	25.3	0	0	127
##	2979	2979	58	0	1	0	170.8	86.4	29.6	1	0	131
##	2980	2980	66	1	1	0	171.6	86.2	29.3	0	0	129
##	2981	2981	58	1	1	0	168.5	90.3	31.8	0	0	122
##	2982	2982	62	1	1	0	158.9	98.3	38.9	1	0	133
##	2983	2983	62	1	1	1	180.8	84.7	25.9	0	0	126
##	2984	2984	61	1	1	1	173.4	84.0	27.9	1	0	154
##	2985	2985	61	1	1	2	180.0	75.0	23.2	1	0	132
##	2986	2986	60	1	1	0	164.8	70.9	26.1	0	0	128
##	2987	2987	62	1	1	1	168.9	77.9	27.3	1	0	142
##	2988	2988	60	1	3	0	174.0	75.0	24.8	1	0	135
##	2989	2989	63	1	1	0	174.8	83.6	27.4	1	0	137
##	2990	2990	62	1	1	1	168.5	66.7	23.5	1	0	144
##	2991	2991	60	0	3	0	174.0	76.3	25.2	1	0	142
##	2992	2992	65	1	3	0	163.9	87.8	32.7	1	0	147
##	2993	2993	58	1	1	0	170.6	72.0	24.7	0	0	121
##	2994	2994	58	0	1	0	178.0	86.8	27.4	1	0	132
##	2995	2995	60	0	1	0	172.9	95.5	31.9	0	0	124
##	2996	2996	57	1	1	0	170.2	83.7	28.9	0	0	124
##	2997	2997	60	1	4	1	177.1	83.4	26.6	0	0	128
##	2998	2998	55	1	1	0	171.9	96.2	32.6	0	0	126
##	2999	2999	63	1	3	0	180.4	82.1	25.2	0	0	125
##	3000	3000	56	0	4	0	175.7	71.3	23.1	1	1	134
##	LDL vaccine severity study recovery_time											
##	1	97	0	0	A		31					
##	2	112	0	0	A		44					
##	3	88	1	0	A		29					
##	4	87	0	1	A		47					
##	5	118	1	0	A		40					
##	6	104	0	0	A		34					
##	7	66	0	0	A		31					
##	8	104	1	0	A		41					
##	9	126	1	1	A		50					

## 10	123	1	0	A	33
## 11	102	0	0	A	39
## 12	106	0	0	A	94
## 13	117	1	0	A	36
## 14	112	1	0	A	17
## 15	103	1	0	A	35
## 16	120	0	0	A	35
## 17	146	1	0	A	51
## 18	109	1	1	A	62
## 19	82	0	0	A	39
## 20	122	0	0	A	53
## 21	93	1	0	A	37
## 22	139	0	0	A	48
## 23	80	0	0	A	49
## 24	136	1	0	A	29
## 25	120	1	0	A	36
## 26	115	1	0	A	47
## 27	71	1	1	A	40
## 28	98	0	0	A	47
## 29	80	1	0	A	12
## 30	95	1	0	A	44
## 31	148	1	1	A	30
## 32	113	1	0	A	30
## 33	107	0	0	A	41
## 34	104	0	1	A	51
## 35	94	0	0	A	56
## 36	126	1	1	A	42
## 37	109	1	0	A	71
## 38	97	1	0	A	30
## 39	137	1	0	A	45
## 40	96	1	0	A	37
## 41	139	0	0	A	54
## 42	87	1	1	A	42
## 43	88	0	0	A	37
## 44	128	1	0	A	40
## 45	70	1	0	A	46
## 46	96	1	0	A	39
## 47	119	0	0	A	40
## 48	137	1	0	A	32
## 49	109	1	0	A	42
## 50	110	0	0	A	38
## 51	115	0	0	A	55
## 52	121	1	0	A	39
## 53	111	1	0	A	19
## 54	118	1	0	A	31
## 55	117	1	0	A	28
## 56	97	1	0	A	24
## 57	73	0	0	A	43
## 58	67	1	0	A	36
## 59	132	0	0	A	44
## 60	115	1	0	A	26
## 61	96	1	0	A	47
## 62	123	1	0	A	40
## 63	137	0	0	A	30

## 64	112	0	0	A	48
## 65	118	1	0	A	36
## 66	118	1	1	A	60
## 67	104	0	0	A	36
## 68	131	0	0	A	46
## 69	90	0	0	A	31
## 70	126	0	0	A	56
## 71	102	1	0	A	32
## 72	104	1	0	A	41
## 73	108	0	0	A	57
## 74	100	1	0	A	43
## 75	100	1	0	A	49
## 76	81	1	0	A	37
## 77	95	0	0	A	51
## 78	121	0	0	A	42
## 79	112	1	1	A	39
## 80	99	1	0	A	31
## 81	119	1	0	A	41
## 82	65	0	0	A	37
## 83	124	0	0	A	50
## 84	111	1	0	A	50
## 85	108	0	0	A	56
## 86	118	0	0	A	38
## 87	95	1	0	A	41
## 88	112	1	0	A	33
## 89	104	1	0	A	33
## 90	154	0	0	A	41
## 91	84	1	0	A	35
## 92	129	1	0	A	48
## 93	94	0	0	A	49
## 94	116	0	0	A	27
## 95	108	1	0	A	51
## 96	95	0	0	A	61
## 97	59	1	0	A	52
## 98	126	0	0	A	43
## 99	109	1	0	A	32
## 100	146	1	0	A	45
## 101	105	1	0	A	51
## 102	103	1	0	A	47
## 103	115	0	0	A	45
## 104	116	0	0	A	31
## 105	82	1	1	A	38
## 106	127	0	0	A	27
## 107	130	1	0	A	35
## 108	131	1	0	A	37
## 109	121	0	0	A	40
## 110	118	1	0	A	53
## 111	98	1	0	A	38
## 112	143	1	0	A	36
## 113	146	1	0	A	33
## 114	119	1	0	A	58
## 115	94	0	0	A	41
## 116	139	0	0	A	56
## 117	94	1	0	A	44

## 118	96	1	0	A	48
## 119	112	1	0	A	30
## 120	123	1	0	A	28
## 121	151	0	0	A	37
## 122	76	1	0	A	51
## 123	87	1	0	A	30
## 124	97	1	0	A	35
## 125	140	0	0	A	35
## 126	115	1	0	A	39
## 127	137	1	0	A	40
## 128	115	0	0	A	31
## 129	119	1	0	A	43
## 130	117	1	0	A	17
## 131	104	0	0	A	56
## 132	73	1	1	A	50
## 133	77	0	1	A	42
## 134	86	0	0	A	53
## 135	78	1	1	A	43
## 136	71	1	0	A	34
## 137	126	1	0	A	24
## 138	58	1	0	A	29
## 139	159	0	1	A	37
## 140	106	0	0	A	43
## 141	141	1	0	A	34
## 142	91	1	0	A	35
## 143	78	1	1	A	49
## 144	102	1	0	A	54
## 145	144	1	0	A	28
## 146	99	1	0	A	25
## 147	127	1	0	A	48
## 148	123	1	1	A	31
## 149	89	0	0	A	51
## 150	94	1	0	A	66
## 151	89	0	0	A	36
## 152	117	1	0	A	40
## 153	77	0	0	A	44
## 154	111	1	0	A	40
## 155	90	1	0	A	34
## 156	144	1	0	A	40
## 157	82	0	0	A	46
## 158	115	1	0	A	41
## 159	137	1	0	A	38
## 160	103	1	0	A	44
## 161	136	1	0	A	40
## 162	109	1	0	A	63
## 163	130	1	0	A	57
## 164	98	1	0	A	42
## 165	157	0	0	A	43
## 166	108	0	0	A	44
## 167	76	1	0	A	31
## 168	97	1	0	A	46
## 169	128	0	0	A	49
## 170	104	1	1	A	51
## 171	118	1	0	A	44

## 172	98	0	0	A	58
## 173	128	1	0	A	45
## 174	125	0	0	A	37
## 175	100	1	0	A	49
## 176	82	0	0	A	41
## 177	119	0	0	A	49
## 178	139	0	0	A	23
## 179	104	1	0	A	30
## 180	117	0	0	A	45
## 181	58	1	0	A	31
## 182	82	0	0	A	33
## 183	102	0	0	A	24
## 184	118	1	0	A	32
## 185	109	1	0	A	49
## 186	112	1	0	A	37
## 187	142	1	0	A	34
## 188	127	1	0	A	38
## 189	99	1	0	A	30
## 190	108	0	0	A	50
## 191	97	1	1	A	47
## 192	112	1	0	A	21
## 193	122	1	0	A	35
## 194	121	1	0	A	40
## 195	97	1	0	A	41
## 196	152	1	0	A	34
## 197	106	0	0	A	38
## 198	123	1	0	A	43
## 199	96	1	1	A	75
## 200	68	1	0	A	50
## 201	111	0	0	A	24
## 202	121	1	0	A	48
## 203	84	1	0	A	46
## 204	116	1	0	A	40
## 205	114	1	1	A	51
## 206	107	1	1	A	25
## 207	101	1	0	A	26
## 208	147	1	1	A	37
## 209	116	0	0	A	45
## 210	157	0	0	A	32
## 211	153	1	0	A	28
## 212	95	0	0	A	39
## 213	111	1	0	A	43
## 214	88	1	0	A	36
## 215	109	0	0	A	59
## 216	86	1	0	A	33
## 217	123	0	0	A	34
## 218	119	1	0	A	54
## 219	138	1	0	A	40
## 220	121	1	0	A	31
## 221	148	0	0	A	29
## 222	127	1	0	A	38
## 223	153	1	0	A	48
## 224	121	1	0	A	38
## 225	102	0	0	A	55

## 226	132	0	0	A	32
## 227	106	1	0	A	21
## 228	77	1	0	A	18
## 229	131	0	0	A	45
## 230	110	0	0	A	45
## 231	142	1	0	A	33
## 232	106	0	0	A	43
## 233	120	1	1	A	38
## 234	111	1	0	A	35
## 235	107	0	0	A	48
## 236	109	0	0	A	43
## 237	121	0	0	A	44
## 238	101	1	0	A	50
## 239	116	0	1	A	33
## 240	84	1	0	A	46
## 241	112	1	0	A	38
## 242	110	0	0	A	31
## 243	98	1	0	A	20
## 244	111	0	1	A	30
## 245	132	0	0	A	25
## 246	79	1	0	A	44
## 247	111	1	0	A	39
## 248	122	1	0	A	49
## 249	86	1	0	A	41
## 250	113	0	0	A	29
## 251	98	1	0	A	83
## 252	84	1	0	A	37
## 253	119	0	0	A	44
## 254	117	0	0	A	47
## 255	114	1	0	A	40
## 256	102	1	0	A	23
## 257	92	1	0	A	53
## 258	114	0	0	A	67
## 259	134	1	0	A	33
## 260	127	1	0	A	56
## 261	125	1	0	A	53
## 262	137	1	0	A	28
## 263	118	1	1	A	24
## 264	68	1	0	A	37
## 265	139	1	0	A	46
## 266	119	1	0	A	43
## 267	122	1	0	A	39
## 268	90	1	1	A	50
## 269	91	1	0	A	31
## 270	143	1	0	A	49
## 271	107	1	0	A	26
## 272	147	1	0	A	40
## 273	111	0	0	A	21
## 274	111	0	1	A	54
## 275	92	0	0	A	59
## 276	131	0	0	A	59
## 277	111	1	0	A	37
## 278	111	1	0	A	18
## 279	110	1	0	A	34

## 280	96	1	0	A	27
## 281	124	1	0	A	31
## 282	113	1	1	A	67
## 283	108	1	0	A	53
## 284	85	0	0	A	43
## 285	128	0	0	A	55
## 286	112	0	0	A	44
## 287	109	0	0	A	60
## 288	107	1	0	A	49
## 289	89	1	0	A	40
## 290	122	1	0	A	39
## 291	106	0	0	A	39
## 292	104	1	0	A	23
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## 1457 101	0	0	A	42
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## 2005 104	0	0	B	41
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## 2007 104	0	0	B	61

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## 2010 80	1	0	B	13
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## 2012 99	0	0	B	34
## 2013 105	0	1	B	33
## 2014 75	0	0	B	24
## 2015 97	0	0	B	77
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## 2017 122	1	0	B	10
## 2018 124	0	0	B	56
## 2019 105	1	0	B	5
## 2020 89	1	1	B	44
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## 2024 140	0	0	B	69
## 2025 159	1	0	B	27
## 2026 136	1	0	B	109
## 2027 84	0	0	B	3
## 2028 98	1	1	B	35
## 2029 146	0	0	B	47
## 2030 114	1	0	B	66
## 2031 120	0	0	B	15
## 2032 121	0	0	B	30
## 2033 108	0	1	B	173
## 2034 132	1	0	B	14
## 2035 105	1	0	B	54
## 2036 119	0	0	B	80
## 2037 84	1	0	B	29
## 2038 111	1	1	B	80
## 2039 119	1	0	B	23
## 2040 108	1	0	B	23
## 2041 105	0	0	B	84
## 2042 114	0	0	B	54
## 2043 158	0	0	B	24
## 2044 99	1	0	B	52
## 2045 99	0	0	B	83
## 2046 165	0	0	B	7
## 2047 131	0	0	B	29
## 2048 129	0	1	B	35
## 2049 69	1	0	B	18
## 2050 119	1	0	B	13
## 2051 91	0	0	B	96
## 2052 130	1	0	B	37
## 2053 108	1	0	B	67
## 2054 107	1	0	B	16
## 2055 123	0	0	B	26
## 2056 132	1	0	B	7
## 2057 75	0	1	B	82
## 2058 118	1	0	B	34
## 2059 108	1	0	B	36
## 2060 126	1	0	B	30
## 2061 106	0	1	B	131

## 2062 84	1	0	B	22
## 2063 110	1	0	B	177
## 2064 94	1	0	B	40
## 2065 127	0	0	B	23
## 2066 102	1	0	B	42
## 2067 118	1	0	B	22
## 2068 93	0	0	B	60
## 2069 139	1	0	B	39
## 2070 108	0	0	B	31
## 2071 87	1	0	B	51
## 2072 127	1	0	B	14
## 2073 120	1	0	B	49
## 2074 136	0	0	B	49
## 2075 90	1	0	B	27
## 2076 114	0	0	B	55
## 2077 109	1	0	B	20
## 2078 120	1	0	B	9
## 2079 73	0	0	B	2
## 2080 131	0	0	B	68
## 2081 104	1	1	B	90
## 2082 132	1	0	B	41
## 2083 99	1	0	B	36
## 2084 114	0	0	B	29
## 2085 128	1	0	B	87
## 2086 95	1	0	B	29
## 2087 71	1	0	B	63
## 2088 120	1	0	B	13
## 2089 72	0	0	B	43
## 2090 86	0	0	B	63
## 2091 120	0	1	B	158
## 2092 89	1	0	B	29
## 2093 115	0	0	B	52
## 2094 104	0	0	B	24
## 2095 82	0	0	B	40
## 2096 90	1	0	B	106
## 2097 116	0	0	B	20
## 2098 112	1	0	B	40
## 2099 154	1	0	B	46
## 2100 103	1	0	B	26
## 2101 120	1	0	B	32
## 2102 105	1	0	B	16
## 2103 88	0	0	B	75
## 2104 115	1	0	B	67
## 2105 100	1	0	B	9
## 2106 119	1	0	B	22
## 2107 107	1	1	B	51
## 2108 117	1	0	B	19
## 2109 123	0	0	B	35
## 2110 134	1	0	B	23
## 2111 108	0	0	B	76
## 2112 91	1	0	B	29
## 2113 91	1	0	B	32
## 2114 99	0	1	B	107
## 2115 136	0	0	B	60

## 2116 139	1	0	B	100
## 2117 91	0	0	B	43
## 2118 120	0	0	B	22
## 2119 116	1	1	B	73
## 2120 127	0	0	B	43
## 2121 107	1	0	B	72
## 2122 101	1	0	B	47
## 2123 129	1	0	B	27
## 2124 110	1	0	B	22
## 2125 110	1	0	B	29
## 2126 84	0	0	B	70
## 2127 106	0	0	B	8
## 2128 97	0	0	B	76
## 2129 115	1	0	B	14
## 2130 89	1	0	B	35
## 2131 83	1	0	B	17
## 2132 137	0	0	B	61
## 2133 130	1	0	B	125
## 2134 91	1	0	B	27
## 2135 81	0	0	B	18
## 2136 96	1	0	B	50
## 2137 110	1	0	B	37
## 2138 109	0	0	B	34
## 2139 110	1	0	B	14
## 2140 138	0	0	B	42
## 2141 124	0	0	B	6
## 2142 116	1	0	B	21
## 2143 130	0	0	B	49
## 2144 111	0	0	B	61
## 2145 107	0	0	B	20
## 2146 89	0	0	B	59
## 2147 82	1	0	B	62
## 2148 122	0	0	B	54
## 2149 90	1	0	B	20
## 2150 96	1	0	B	46
## 2151 105	1	0	B	33
## 2152 112	1	0	B	14
## 2153 154	0	1	B	66
## 2154 97	0	0	B	54
## 2155 122	1	0	B	39
## 2156 127	0	1	B	23
## 2157 112	1	0	B	31
## 2158 88	1	0	B	17
## 2159 107	1	0	B	30
## 2160 126	1	0	B	24
## 2161 121	1	0	B	53
## 2162 99	1	0	B	61
## 2163 87	0	0	B	9
## 2164 102	0	1	B	89
## 2165 152	1	0	B	33
## 2166 101	1	0	B	57
## 2167 116	1	0	B	13
## 2168 132	0	0	B	30
## 2169 96	0	0	B	57

## 2170 103	1	0	B	23
## 2171 90	1	0	B	20
## 2172 125	0	0	B	43
## 2173 151	0	0	B	90
## 2174 141	1	0	B	27
## 2175 136	0	0	B	8
## 2176 137	1	0	B	10
## 2177 114	1	0	B	28
## 2178 119	1	0	B	11
## 2179 111	0	1	B	47
## 2180 119	0	0	B	62
## 2181 99	0	0	B	52
## 2182 95	0	0	B	55
## 2183 97	1	0	B	55
## 2184 151	0	0	B	34
## 2185 116	1	0	B	12
## 2186 74	1	0	B	22
## 2187 85	0	0	B	63
## 2188 122	1	0	B	17
## 2189 86	1	0	B	54
## 2190 82	1	0	B	16
## 2191 126	0	0	B	47
## 2192 93	1	0	B	11
## 2193 79	1	0	B	197
## 2194 81	1	0	B	18
## 2195 111	0	0	B	17
## 2196 98	1	0	B	52
## 2197 121	0	0	B	97
## 2198 95	1	0	B	24
## 2199 132	1	0	B	27
## 2200 142	0	0	B	27
## 2201 120	1	0	B	36
## 2202 96	1	1	B	39
## 2203 112	1	0	B	49
## 2204 104	0	0	B	44
## 2205 65	1	0	B	47
## 2206 106	1	0	B	30
## 2207 95	0	0	B	33
## 2208 118	1	0	B	2
## 2209 112	1	0	B	50
## 2210 110	1	0	B	41
## 2211 93	0	0	B	110
## 2212 105	0	0	B	33
## 2213 102	1	0	B	42
## 2214 103	1	0	B	18
## 2215 126	0	0	B	63
## 2216 162	1	0	B	4
## 2217 83	0	0	B	23
## 2218 115	1	0	B	78
## 2219 115	0	0	B	8
## 2220 124	0	1	B	36
## 2221 81	0	0	B	80
## 2222 107	0	0	B	13
## 2223 73	1	0	B	54

## 2224	127	0	0	B	22
## 2225	152	0	0	B	41
## 2226	134	1	0	B	54
## 2227	126	1	0	B	21
## 2228	128	1	0	B	19
## 2229	86	0	1	B	66
## 2230	129	0	1	B	152
## 2231	117	1	1	B	68
## 2232	106	1	1	B	79
## 2233	130	1	0	B	48
## 2234	123	1	0	B	97
## 2235	103	1	1	B	22
## 2236	142	0	0	B	83
## 2237	115	1	0	B	48
## 2238	125	1	0	B	76
## 2239	108	0	0	B	51
## 2240	98	1	0	B	12
## 2241	89	1	0	B	37
## 2242	108	1	0	B	82
## 2243	118	0	0	B	31
## 2244	103	0	0	B	27
## 2245	107	0	0	B	22
## 2246	88	1	0	B	42
## 2247	95	0	1	B	14
## 2248	116	1	0	B	30
## 2249	142	1	0	B	38
## 2250	115	0	1	B	63
## 2251	77	0	0	B	40
## 2252	80	1	0	B	11
## 2253	122	0	0	B	94
## 2254	99	0	0	B	22
## 2255	106	1	0	B	21
## 2256	79	0	0	B	142
## 2257	115	1	0	B	28
## 2258	87	0	0	B	30
## 2259	104	0	0	B	9
## 2260	113	1	0	B	14
## 2261	125	1	0	B	27
## 2262	131	1	0	B	15
## 2263	68	0	0	B	7
## 2264	98	1	0	B	45
## 2265	92	1	0	B	9
## 2266	125	0	0	B	35
## 2267	101	1	1	B	72
## 2268	123	1	1	B	9
## 2269	80	1	0	B	4
## 2270	92	1	0	B	44
## 2271	60	1	1	B	46
## 2272	72	0	1	B	62
## 2273	97	0	0	B	22
## 2274	88	1	0	B	41
## 2275	126	0	0	B	74
## 2276	101	0	1	B	84
## 2277	98	1	0	B	73

## 2278 127	0	0	B	148
## 2279 160	0	0	B	6
## 2280 101	1	0	B	21
## 2281 91	1	0	B	59
## 2282 131	1	0	B	70
## 2283 135	0	0	B	26
## 2284 132	0	0	B	18
## 2285 112	0	1	B	50
## 2286 92	1	0	B	66
## 2287 114	0	0	B	67
## 2288 103	0	0	B	77
## 2289 119	0	0	B	59
## 2290 97	1	0	B	7
## 2291 116	0	0	B	66
## 2292 98	1	0	B	26
## 2293 118	0	0	B	37
## 2294 96	1	0	B	30
## 2295 157	0	1	B	22
## 2296 104	0	0	B	16
## 2297 95	0	0	B	57
## 2298 128	1	1	B	93
## 2299 93	0	0	B	106
## 2300 113	1	0	B	37
## 2301 122	0	0	B	103
## 2302 103	1	1	B	24
## 2303 87	0	0	B	80
## 2304 145	1	0	B	27
## 2305 105	1	1	B	41
## 2306 140	0	0	B	25
## 2307 104	1	1	B	119
## 2308 58	1	0	B	23
## 2309 82	1	0	B	23
## 2310 115	1	1	B	89
## 2311 119	1	0	B	22
## 2312 121	1	1	B	24
## 2313 98	1	0	B	203
## 2314 134	1	0	B	5
## 2315 108	1	0	B	13
## 2316 131	0	0	B	34
## 2317 126	1	0	B	48
## 2318 116	0	0	B	23
## 2319 78	0	0	B	228
## 2320 130	0	0	B	62
## 2321 128	1	0	B	61
## 2322 116	0	0	B	36
## 2323 87	0	0	B	15
## 2324 98	1	0	B	85
## 2325 144	1	0	B	20
## 2326 90	0	0	B	64
## 2327 96	1	0	B	14
## 2328 127	1	0	B	40
## 2329 120	1	0	B	53
## 2330 113	0	0	B	87
## 2331 127	1	0	B	21

## 2332 102	1	1	B	12
## 2333 149	0	0	B	38
## 2334 118	1	0	B	21
## 2335 114	1	0	B	25
## 2336 106	0	0	B	49
## 2337 81	1	0	B	20
## 2338 138	1	0	B	21
## 2339 90	0	0	B	28
## 2340 149	0	0	B	45
## 2341 91	0	0	B	14
## 2342 82	1	0	B	17
## 2343 75	1	0	B	14
## 2344 122	1	0	B	52
## 2345 70	1	0	B	36
## 2346 95	0	0	B	118
## 2347 80	1	1	B	26
## 2348 139	1	0	B	23
## 2349 87	1	1	B	11
## 2350 102	1	0	B	90
## 2351 103	1	0	B	7
## 2352 100	1	0	B	10
## 2353 110	0	0	B	6
## 2354 126	1	0	B	52
## 2355 99	1	1	B	52
## 2356 105	1	0	B	24
## 2357 104	0	1	B	57
## 2358 121	0	0	B	71
## 2359 95	1	0	B	13
## 2360 120	1	1	B	96
## 2361 120	0	0	B	52
## 2362 113	1	0	B	19
## 2363 105	0	0	B	222
## 2364 103	0	0	B	34
## 2365 136	0	0	B	46
## 2366 85	0	0	B	63
## 2367 117	1	0	B	32
## 2368 94	0	0	B	100
## 2369 108	1	0	B	17
## 2370 94	1	0	B	32
## 2371 102	1	1	B	89
## 2372 104	0	0	B	18
## 2373 115	1	0	B	39
## 2374 112	1	1	B	22
## 2375 132	1	0	B	28
## 2376 65	0	0	B	105
## 2377 99	1	0	B	31
## 2378 110	0	0	B	59
## 2379 117	1	0	B	27
## 2380 76	1	0	B	47
## 2381 137	0	0	B	34
## 2382 98	1	0	B	30
## 2383 111	1	0	B	63
## 2384 127	1	0	B	47
## 2385 117	1	0	B	89

## 2386 116	0	0	B	4
## 2387 104	1	0	B	13
## 2388 98	1	0	B	68
## 2389 132	1	0	B	24
## 2390 105	0	0	B	16
## 2391 134	1	0	B	19
## 2392 104	1	0	B	4
## 2393 89	1	0	B	4
## 2394 134	1	0	B	68
## 2395 116	1	0	B	38
## 2396 119	1	0	B	34
## 2397 126	0	0	B	84
## 2398 114	0	0	B	45
## 2399 83	0	0	B	40
## 2400 104	1	0	B	75
## 2401 119	0	0	B	64
## 2402 73	0	1	B	92
## 2403 129	1	0	B	56
## 2404 105	1	1	B	137
## 2405 109	0	0	B	21
## 2406 108	0	0	B	14
## 2407 121	0	0	B	116
## 2408 100	0	0	B	20
## 2409 93	1	0	B	69
## 2410 110	0	1	B	46
## 2411 141	0	0	B	52
## 2412 105	0	0	B	25
## 2413 102	0	0	B	52
## 2414 123	0	0	B	48
## 2415 107	1	1	B	44
## 2416 120	1	0	B	30
## 2417 144	1	0	B	31
## 2418 107	1	0	B	12
## 2419 104	1	0	B	20
## 2420 129	0	0	B	19
## 2421 140	0	0	B	73
## 2422 119	1	0	B	9
## 2423 115	0	0	B	63
## 2424 147	0	0	B	15
## 2425 92	1	0	B	53
## 2426 88	1	0	B	24
## 2427 109	1	0	B	44
## 2428 129	1	0	B	151
## 2429 127	0	0	B	77
## 2430 108	0	0	B	18
## 2431 83	0	0	B	95
## 2432 135	1	1	B	33
## 2433 110	1	0	B	78
## 2434 90	0	1	B	74
## 2435 128	0	0	B	37
## 2436 146	0	0	B	30
## 2437 77	1	1	B	296
## 2438 132	1	0	B	71
## 2439 84	0	0	B	65

## 2440 103	1	0	B	27
## 2441 135	0	1	B	30
## 2442 106	1	0	B	85
## 2443 125	1	0	B	19
## 2444 141	0	1	B	330
## 2445 141	0	0	B	69
## 2446 118	1	0	B	49
## 2447 113	1	0	B	54
## 2448 70	1	0	B	32
## 2449 136	1	0	B	27
## 2450 115	0	0	B	20
## 2451 133	1	0	B	4
## 2452 78	1	0	B	71
## 2453 101	1	0	B	57
## 2454 106	1	0	B	71
## 2455 144	1	0	B	18
## 2456 68	1	0	B	43
## 2457 156	0	0	B	3
## 2458 128	1	1	B	35
## 2459 128	1	0	B	45
## 2460 97	1	0	B	33
## 2461 74	1	0	B	29
## 2462 117	1	0	B	21
## 2463 107	1	0	B	34
## 2464 109	0	0	B	78
## 2465 144	0	0	B	68
## 2466 130	0	0	B	63
## 2467 110	0	0	B	90
## 2468 147	0	0	B	49
## 2469 125	0	0	B	69
## 2470 90	0	0	B	43
## 2471 109	1	0	B	34
## 2472 89	0	0	B	47
## 2473 79	0	1	B	19
## 2474 145	0	0	B	47
## 2475 128	0	0	B	88
## 2476 113	0	0	B	42
## 2477 140	1	0	B	26
## 2478 112	0	0	B	51
## 2479 80	1	0	B	140
## 2480 133	1	1	B	55
## 2481 77	1	0	B	45
## 2482 106	1	0	B	23
## 2483 85	1	0	B	22
## 2484 97	1	0	B	26
## 2485 111	0	0	B	55
## 2486 140	0	0	B	29
## 2487 131	1	0	B	15
## 2488 95	1	0	B	41
## 2489 122	0	0	B	16
## 2490 101	1	0	B	44
## 2491 88	1	0	B	77
## 2492 118	1	0	B	20
## 2493 90	1	0	B	48

## 2494 122	1	0	B	31
## 2495 106	0	0	B	32
## 2496 117	1	0	B	26
## 2497 120	1	0	B	41
## 2498 117	0	1	B	113
## 2499 115	1	0	B	36
## 2500 77	1	0	B	27
## 2501 112	0	0	B	52
## 2502 131	1	0	B	71
## 2503 116	1	0	B	24
## 2504 119	1	0	B	37
## 2505 96	1	0	B	75
## 2506 150	0	0	B	58
## 2507 126	0	0	B	31
## 2508 113	0	0	B	33
## 2509 134	1	0	B	27
## 2510 114	1	0	B	20
## 2511 120	1	1	B	72
## 2512 106	0	1	B	161
## 2513 73	1	0	B	38
## 2514 114	1	1	B	37
## 2515 94	0	0	B	60
## 2516 133	0	0	B	86
## 2517 131	1	0	B	34
## 2518 91	0	0	B	12
## 2519 109	1	0	B	47
## 2520 100	0	1	B	35
## 2521 128	0	0	B	61
## 2522 99	1	0	B	12
## 2523 112	0	1	B	27
## 2524 121	1	0	B	36
## 2525 79	1	0	B	14
## 2526 100	1	0	B	32
## 2527 139	1	0	B	26
## 2528 104	0	0	B	22
## 2529 95	1	0	B	27
## 2530 108	1	0	B	22
## 2531 132	1	0	B	17
## 2532 113	0	0	B	18
## 2533 70	1	0	B	60
## 2534 91	1	0	B	17
## 2535 117	1	0	B	30
## 2536 136	1	0	B	32
## 2537 75	1	1	B	26
## 2538 97	1	0	B	40
## 2539 152	0	0	B	44
## 2540 108	1	0	B	66
## 2541 85	0	0	B	10
## 2542 91	0	1	B	55
## 2543 144	0	0	B	27
## 2544 125	1	0	B	14
## 2545 62	1	0	B	43
## 2546 97	1	1	B	49
## 2547 125	1	0	B	35

## 2548	77	0	0	B	62
## 2549	91	1	0	B	45
## 2550	96	1	0	B	28
## 2551	124	0	0	B	31
## 2552	97	0	1	B	16
## 2553	103	1	0	B	26
## 2554	56	1	0	B	71
## 2555	107	1	0	B	19
## 2556	125	1	0	B	60
## 2557	120	0	0	B	23
## 2558	107	0	0	B	103
## 2559	143	1	0	B	365
## 2560	149	0	0	B	47
## 2561	96	1	0	B	29
## 2562	117	1	0	B	76
## 2563	96	1	1	B	50
## 2564	105	1	0	B	60
## 2565	89	1	0	B	15
## 2566	94	1	0	B	62
## 2567	87	0	0	B	92
## 2568	145	0	0	B	34
## 2569	91	1	0	B	39
## 2570	102	1	0	B	10
## 2571	83	1	0	B	29
## 2572	138	0	0	B	27
## 2573	121	1	0	B	24
## 2574	134	1	0	B	27
## 2575	105	0	0	B	33
## 2576	145	0	0	B	63
## 2577	109	0	0	B	66
## 2578	118	1	0	B	13
## 2579	114	1	0	B	97
## 2580	104	0	0	B	12
## 2581	95	1	0	B	39
## 2582	121	1	0	B	83
## 2583	135	1	0	B	54
## 2584	143	0	0	B	64
## 2585	115	1	0	B	31
## 2586	110	0	1	B	64
## 2587	122	1	0	B	56
## 2588	89	0	0	B	48
## 2589	135	1	0	B	25
## 2590	114	1	0	B	23
## 2591	105	1	0	B	12
## 2592	153	1	1	B	30
## 2593	136	1	0	B	33
## 2594	110	1	0	B	50
## 2595	79	1	1	B	29
## 2596	127	1	0	B	88
## 2597	135	0	0	B	41
## 2598	108	1	0	B	68
## 2599	117	0	0	B	39
## 2600	126	0	0	B	51
## 2601	113	1	0	B	22

## 2602 113	1	0	B	30
## 2603 98	1	0	B	33
## 2604 95	1	0	B	11
## 2605 140	1	0	B	29
## 2606 102	1	0	B	46
## 2607 90	1	0	B	43
## 2608 114	0	0	B	70
## 2609 119	0	0	B	23
## 2610 123	1	0	B	10
## 2611 96	0	0	B	57
## 2612 97	1	0	B	49
## 2613 107	1	0	B	11
## 2614 84	0	0	B	194
## 2615 124	0	0	B	25
## 2616 53	0	0	B	56
## 2617 116	0	0	B	42
## 2618 91	0	0	B	44
## 2619 113	0	0	B	20
## 2620 113	1	0	B	152
## 2621 94	0	0	B	39
## 2622 101	0	0	B	20
## 2623 129	0	0	B	53
## 2624 104	0	0	B	93
## 2625 129	1	0	B	62
## 2626 132	1	0	B	22
## 2627 105	0	0	B	40
## 2628 100	0	0	B	39
## 2629 89	1	0	B	9
## 2630 127	1	0	B	22
## 2631 112	1	1	B	49
## 2632 159	0	0	B	30
## 2633 91	0	0	B	21
## 2634 124	1	1	B	62
## 2635 95	1	0	B	12
## 2636 129	1	0	B	36
## 2637 100	0	0	B	63
## 2638 96	0	0	B	55
## 2639 106	1	0	B	20
## 2640 99	1	0	B	17
## 2641 102	1	0	B	90
## 2642 93	0	0	B	47
## 2643 128	0	0	B	102
## 2644 148	0	0	B	32
## 2645 125	1	0	B	46
## 2646 90	0	1	B	5
## 2647 145	1	0	B	70
## 2648 125	1	0	B	28
## 2649 95	0	0	B	58
## 2650 114	1	0	B	27
## 2651 102	0	0	B	39
## 2652 107	0	0	B	17
## 2653 113	1	1	B	84
## 2654 87	0	0	B	50
## 2655 115	1	0	B	61

## 2656 119	1	0	B	20
## 2657 133	1	0	B	25
## 2658 101	1	0	B	27
## 2659 156	0	0	B	56
## 2660 118	1	0	B	17
## 2661 101	0	0	B	59
## 2662 101	0	0	B	57
## 2663 100	0	0	B	28
## 2664 91	0	0	B	43
## 2665 141	1	0	B	34
## 2666 128	1	0	B	33
## 2667 118	1	0	B	44
## 2668 121	1	0	B	15
## 2669 95	1	0	B	38
## 2670 86	1	1	B	41
## 2671 108	1	0	B	44
## 2672 122	1	0	B	39
## 2673 148	1	0	B	29
## 2674 126	1	0	B	25
## 2675 123	0	0	B	54
## 2676 123	1	0	B	26
## 2677 94	1	0	B	51
## 2678 119	1	0	B	42
## 2679 102	1	0	B	26
## 2680 112	0	0	B	72
## 2681 101	1	0	B	55
## 2682 65	0	0	B	20
## 2683 118	1	0	B	116
## 2684 124	0	0	B	59
## 2685 99	0	0	B	63
## 2686 124	1	0	B	58
## 2687 122	0	0	B	75
## 2688 113	1	0	B	13
## 2689 112	1	0	B	43
## 2690 88	0	0	B	11
## 2691 72	1	0	B	35
## 2692 95	1	0	B	33
## 2693 117	1	0	B	117
## 2694 147	0	0	B	60
## 2695 114	0	0	B	49
## 2696 106	1	0	B	5
## 2697 123	1	0	B	20
## 2698 137	1	0	B	28
## 2699 99	1	0	B	21
## 2700 90	1	0	B	29
## 2701 89	1	0	B	62
## 2702 100	0	0	B	44
## 2703 98	0	0	B	53
## 2704 150	0	0	B	30
## 2705 130	0	0	B	18
## 2706 133	0	0	B	82
## 2707 84	1	0	B	58
## 2708 116	0	0	B	65
## 2709 149	1	0	B	34

## 2710 122	1	0	B	80
## 2711 111	0	0	B	63
## 2712 109	1	1	B	57
## 2713 114	1	0	B	49
## 2714 135	0	0	B	16
## 2715 116	1	0	B	70
## 2716 82	0	0	B	88
## 2717 124	1	1	B	27
## 2718 118	1	0	B	10
## 2719 90	0	0	B	26
## 2720 95	1	0	B	21
## 2721 112	0	0	B	134
## 2722 135	1	0	B	33
## 2723 112	0	0	B	28
## 2724 102	1	0	B	45
## 2725 108	1	1	B	28
## 2726 141	1	0	B	16
## 2727 124	0	0	B	23
## 2728 127	0	0	B	69
## 2729 140	1	0	B	54
## 2730 130	0	1	B	32
## 2731 107	0	0	B	65
## 2732 95	1	0	B	26
## 2733 149	0	0	B	10
## 2734 111	1	0	B	76
## 2735 118	1	0	B	52
## 2736 121	1	0	B	42
## 2737 139	1	0	B	45
## 2738 104	1	0	B	23
## 2739 110	1	0	B	35
## 2740 137	1	0	B	50
## 2741 96	1	0	B	52
## 2742 129	0	1	B	33
## 2743 156	1	0	B	26
## 2744 103	1	0	B	13
## 2745 116	0	0	B	47
## 2746 106	1	0	B	30
## 2747 100	0	0	B	20
## 2748 86	1	0	B	33
## 2749 120	0	0	B	37
## 2750 103	1	0	B	35
## 2751 113	1	0	B	28
## 2752 110	1	0	B	38
## 2753 108	1	0	B	26
## 2754 108	0	0	B	25
## 2755 138	0	0	B	56
## 2756 117	1	0	B	15
## 2757 76	0	0	B	44
## 2758 90	1	0	B	176
## 2759 115	0	0	B	81
## 2760 95	0	0	B	22
## 2761 126	1	0	B	38
## 2762 123	1	0	B	37
## 2763 72	1	0	B	40

## 2764 114	1	0	B	50
## 2765 125	0	0	B	62
## 2766 98	1	0	B	85
## 2767 135	1	0	B	49
## 2768 112	1	0	B	50
## 2769 108	1	0	B	118
## 2770 118	0	0	B	30
## 2771 85	1	1	B	13
## 2772 105	1	0	B	15
## 2773 83	1	0	B	17
## 2774 132	1	0	B	13
## 2775 111	1	0	B	65
## 2776 98	1	1	B	35
## 2777 82	1	0	B	34
## 2778 115	1	0	B	25
## 2779 65	0	0	B	14
## 2780 95	1	0	B	95
## 2781 140	0	0	B	32
## 2782 123	1	0	B	38
## 2783 146	1	0	B	40
## 2784 130	1	0	B	48
## 2785 128	1	0	B	8
## 2786 128	1	0	B	71
## 2787 108	1	0	B	14
## 2788 138	1	0	B	40
## 2789 110	1	0	B	23
## 2790 83	0	0	B	33
## 2791 94	1	1	B	11
## 2792 131	1	0	B	11
## 2793 97	1	0	B	44
## 2794 109	0	0	B	82
## 2795 127	1	0	B	26
## 2796 89	1	0	B	62
## 2797 120	1	0	B	17
## 2798 91	1	0	B	34
## 2799 101	1	0	B	43
## 2800 116	1	1	B	20
## 2801 128	1	0	B	23
## 2802 100	1	0	B	90
## 2803 121	1	0	B	48
## 2804 147	1	0	B	37
## 2805 133	0	0	B	34
## 2806 71	0	0	B	96
## 2807 96	1	0	B	61
## 2808 89	1	0	B	47
## 2809 125	0	0	B	11
## 2810 139	1	1	B	32
## 2811 122	1	0	B	60
## 2812 124	1	0	B	33
## 2813 95	1	0	B	31
## 2814 87	1	1	B	63
## 2815 95	1	1	B	37
## 2816 128	0	0	B	17
## 2817 129	0	0	B	365

## 2818	90	0	0	B	62
## 2819	87	0	1	B	22
## 2820	100	0	0	B	82
## 2821	151	1	0	B	21
## 2822	138	1	0	B	9
## 2823	103	1	0	B	19
## 2824	77	0	0	B	25
## 2825	110	0	0	B	86
## 2826	113	0	0	B	88
## 2827	89	1	0	B	19
## 2828	105	0	1	B	40
## 2829	118	1	0	B	15
## 2830	118	0	0	B	9
## 2831	93	1	0	B	8
## 2832	113	0	0	B	43
## 2833	98	1	0	B	28
## 2834	108	0	0	B	57
## 2835	104	1	0	B	37
## 2836	133	0	0	B	23
## 2837	95	0	0	B	82
## 2838	127	1	0	B	72
## 2839	139	0	0	B	97
## 2840	131	1	0	B	26
## 2841	130	0	0	B	57
## 2842	93	0	0	B	37
## 2843	112	1	0	B	54
## 2844	99	0	0	B	19
## 2845	123	0	0	B	21
## 2846	117	1	0	B	38
## 2847	113	0	0	B	24
## 2848	70	0	0	B	55
## 2849	83	1	0	B	17
## 2850	82	1	0	B	47
## 2851	94	1	0	B	79
## 2852	96	0	0	B	17
## 2853	96	1	0	B	57
## 2854	110	1	0	B	7
## 2855	119	1	0	B	35
## 2856	100	0	0	B	138
## 2857	95	0	0	B	53
## 2858	110	0	0	B	74
## 2859	100	0	0	B	17
## 2860	114	1	1	B	33
## 2861	110	0	0	B	82
## 2862	94	1	0	B	44
## 2863	140	1	1	B	31
## 2864	154	0	0	B	47
## 2865	91	0	1	B	76
## 2866	116	1	0	B	28
## 2867	109	0	0	B	18
## 2868	104	1	0	B	18
## 2869	132	1	0	B	92
## 2870	111	1	0	B	20
## 2871	118	0	0	B	16

## 2872 114	0	0	B	29
## 2873 80	1	1	B	76
## 2874 95	1	0	B	19
## 2875 116	1	0	B	36
## 2876 78	0	0	B	11
## 2877 116	0	0	B	37
## 2878 111	1	0	B	56
## 2879 78	1	1	B	51
## 2880 125	1	0	B	52
## 2881 98	1	0	B	34
## 2882 103	0	0	B	74
## 2883 109	0	0	B	19
## 2884 112	1	0	B	40
## 2885 124	0	0	B	21
## 2886 127	1	0	B	73
## 2887 140	1	0	B	51
## 2888 92	0	0	B	30
## 2889 101	0	0	B	74
## 2890 96	1	0	B	50
## 2891 102	1	0	B	37
## 2892 116	1	0	B	63
## 2893 91	0	0	B	18
## 2894 109	1	0	B	43
## 2895 143	1	0	B	36
## 2896 125	1	0	B	29
## 2897 108	0	0	B	20
## 2898 111	1	0	B	4
## 2899 121	1	0	B	19
## 2900 111	0	1	B	17
## 2901 145	1	0	B	14
## 2902 144	0	0	B	48
## 2903 96	1	0	B	84
## 2904 103	0	1	B	32
## 2905 143	1	0	B	14
## 2906 88	0	0	B	54
## 2907 136	1	0	B	28
## 2908 139	1	0	B	4
## 2909 107	0	0	B	40
## 2910 107	1	0	B	16
## 2911 108	1	0	B	88
## 2912 109	1	0	B	66
## 2913 127	0	0	B	33
## 2914 131	1	0	B	5
## 2915 114	0	1	B	133
## 2916 101	0	0	B	16
## 2917 82	0	0	B	38
## 2918 71	1	0	B	22
## 2919 111	0	0	B	15
## 2920 65	1	0	B	47
## 2921 107	1	0	B	36
## 2922 146	0	0	B	77
## 2923 71	1	0	B	31
## 2924 113	1	0	B	52
## 2925 106	0	0	B	61

## 2926 95	1	0	B	50
## 2927 106	1	0	B	52
## 2928 93	0	0	B	51
## 2929 85	1	0	B	29
## 2930 105	0	1	B	92
## 2931 129	0	0	B	20
## 2932 152	0	1	B	160
## 2933 97	1	0	B	62
## 2934 139	1	0	B	15
## 2935 138	0	0	B	15
## 2936 138	0	0	B	41
## 2937 97	1	0	B	47
## 2938 121	0	0	B	19
## 2939 109	1	0	B	8
## 2940 169	1	0	B	79
## 2941 116	0	0	B	85
## 2942 145	0	0	B	37
## 2943 118	1	0	B	34
## 2944 160	0	0	B	36
## 2945 92	1	0	B	11
## 2946 100	0	0	B	97
## 2947 96	0	0	B	23
## 2948 99	1	0	B	57
## 2949 81	0	0	B	60
## 2950 142	1	0	B	27
## 2951 121	0	0	B	35
## 2952 87	1	0	B	40
## 2953 111	1	0	B	110
## 2954 105	1	0	B	31
## 2955 109	1	0	B	23
## 2956 123	0	0	B	97
## 2957 118	1	0	B	24
## 2958 91	1	0	B	20
## 2959 80	0	0	B	126
## 2960 145	1	0	B	46
## 2961 97	1	0	B	18
## 2962 98	0	0	B	11
## 2963 109	0	0	B	25
## 2964 133	1	0	B	37
## 2965 124	1	0	B	28
## 2966 139	0	0	B	120
## 2967 113	1	0	B	101
## 2968 102	1	0	B	51
## 2969 118	1	0	B	31
## 2970 104	0	0	B	23
## 2971 97	1	0	B	23
## 2972 114	1	0	B	48
## 2973 74	0	0	B	74
## 2974 76	1	0	B	30
## 2975 112	0	0	B	31
## 2976 88	1	1	B	17
## 2977 92	0	0	B	80
## 2978 124	1	0	B	10
## 2979 105	0	0	B	29


```
## 2980 132      0      0      B      19
## 2981  82      0      0      B     101
## 2982 128      0      0      B     232
## 2983  96      0      0      B      38
## 2984 123      0      0      B      37
## 2985 138      0      0      B      20
## 2986 131      1      0      B      36
## 2987 119      1      0      B      16
## 2988  94      0      0      B      25
## 2989 108      1      0      B      14
## 2990 104      0      0      B      80
## 2991  99      1      0      B      40
## 2992  97      0      0      B      98
## 2993  79      0      0      B      33
## 2994  98      1      0      B      47
## 2995 134      1      0      B      35
## 2996 101      1      0      B      16
## 2997 106      0      0      B      32
## 2998  98      0      0      B      93
## 2999 120      1      0      B      26
## 3000 102      1      0      B      15
```

```
set.seed(2)
```

```
# create a random split of 80% training and 20% test data
data_split <- initial_split(data = dat, prop = 0.8)
```

```
# partitioned datasets
training_data = training(data_split)
testing_data = testing(data_split)
```

```
# training data
x <- model.matrix(recovery_time ~ ., training_data)[, -1] # matrix of predictors
head(x)
```

```
##      id age gender race2 race3 race4 smoking1 smoking2 height weight  bmi
## 1  975  61      1      0      1      0          0          0 181.5  69.4 21.1
## 2  710  61      0      0      0      0          0          0 183.2  90.5 27.0
## 3 2822  66      1      0      1      0          0          0 165.1  69.3 25.4
## 4  416  67      1      0      1      0          0          1 173.5  79.3 26.3
## 5  392  65      1      0      0      0          0          0 169.0  85.9 30.1
## 6  273  63      1      0      0      0          0          1 170.8  87.2 29.9
##      hypertension diabetes SBP LDL vaccine severity studyB
## 1              1          0 136 104          1          0      0
## 2              0          0 130  96          1          0      0
## 3              1          0 137 138          1          0      1
## 4              1          0 136 104          1          0      0
## 5              1          0 131 143          1          0      0
## 6              0          0 128 111          0          0      0
```

```
y <- training_data$recovery_time # vector of response
```

```
# testing data
x2 <- model.matrix(recovery_time ~ ., testing_data)[, -1] # matrix of predictors
y2 <- testing_data$recovery_time # vector of response
```

Exploratory analysis and data visualization

```

dat_ds <- dat |>
  mutate(across(.fns = as.factor)) |>
  rename_with(~str_to_title(.x), everything()) |>
  mutate(
    Age = as.numeric(Age),
    Gender = factor(Gender, levels = c(0, 1), labels = c("Female", "Male")),
    `Race/Ethnicity` = factor(Race, levels = c(1, 2, 3, 4), labels = c("White", "Asian", "Black", "Hispanic/Latino")),
    `Smoking status` = factor(Smoking, levels = c(0, 1, 2), labels = c("Never smoked", "Former smoker", "Current smoker")),
    Height = as.numeric(Height),
    Weight = as.numeric(Weight),
    `Body Mass Index (BMI)` = as.numeric(Bmi),
    Hypertension = factor(Hypertension, levels = c(0, 1), labels = c("No", "Yes")),
    Diabetes = factor(Diabetes, levels = c(0, 1), labels = c("No", "Yes")),
    `Systolic Blood Pressure (SBP)` = as.numeric(Sbp),
    `Low-density lipoprotein cholesterol (LDL)` = as.numeric(Ldl),
    `Vaccination status at the time of infection (vaccine)` = factor(Vaccine, levels = c(0, 1), labels = c("No", "Yes")),
    `Severity of COVID-19 infection (severity)` = factor(Severity, levels = c(0, 1), labels = c("Not severe", "Severe")),
    `Time from COVID-19 infection to recovery (recovery_time)` = as.numeric(Recovery_time),
    Study = factor(Study, levels = c("A", "B"), labels = c("Study A", "Study B"))
  )

units(dat_ds$Height) <- "cm"
units(dat_ds$Weight) <- "kg"
units(dat_ds$`Body Mass Index (BMI)`) <- "kg/m^2"
units(dat_ds$`Systolic Blood Pressure (SBP)`) <- "mm/Hg"
units(dat_ds$`Low-density lipoprotein cholesterol (LDL)`) <- "mg/dL"
units(dat_ds$`Time from COVID-19 infection to recovery (recovery_time)`) <- "days"

# descriptive statistics
descriptive_table <- table1(~ Age + Gender + `Race/Ethnicity` + `Smoking status` + Height + Weight + `Body Mass Index (BMI)` + `Systolic Blood Pressure (SBP)` + `Low-density lipoprotein cholesterol (LDL)` + `Vaccination status at the time of infection (vaccine)` + `Severity of COVID-19 infection (severity)` + `Time from COVID-19 infection to recovery (recovery_time)` + Study,
  data = dat_ds,
  overall = "Total",
  caption = "Descriptive Statistics")

t1kable(descriptive_table)

```

Table 1: Descriptive Statistics

	Study A	Study B	Total
	(N=2000)	(N=1000)	(N=3000)
Age			
Mean (SD)	17.2 (4.52)	17.2 (4.38)	17.2 (4.47)
Median [Min, Max]	17.0 [1.00, 34.0]	17.0 [2.00, 33.0]	17.0 [1.00, 34.0]
Gender			
Female	1036 (51.8%)	508 (50.8%)	1544 (51.5%)
Male	964 (48.2%)	492 (49.2%)	1456 (48.5%)
Race/Ethnicity			
White	1312 (65.6%)	655 (65.5%)	1967 (65.6%)
Asian	108 (5.4%)	50 (5.0%)	158 (5.3%)
Black	408 (20.4%)	196 (19.6%)	604 (20.1%)
Hispanic	172 (8.6%)	99 (9.9%)	271 (9.0%)
Smoking status			
Never smoked	1225 (61.3%)	597 (59.7%)	1822 (60.7%)
Former smoker	557 (27.9%)	302 (30.2%)	859 (28.6%)
Current smoker	218 (10.9%)	101 (10.1%)	319 (10.6%)
Height (cm)			
Mean (SD)	160 (58.8)	161 (59.1)	160 (58.9)
Median [Min, Max]	160 [1.00, 313]	161 [2.00, 312]	160 [1.00, 313]
Weight (kg)			
Mean (SD)	181 (70.0)	182 (70.5)	182 (70.2)
Median [Min, Max]	178 [1.00, 364]	182 [3.00, 358]	180 [1.00, 364]
Body Mass Index (BMI) (kg/m²)			
Mean (SD)	77.6 (27.5)	77.6 (28.3)	77.6 (27.8)
Median [Min, Max]	77.0 [1.00, 162]	76.0 [2.00, 163]	76.5 [1.00, 163]
Hypertension			
No	998 (49.9%)	510 (51.0%)	1508 (50.3%)
Yes	1002 (50.1%)	490 (49.0%)	1492 (49.7%)
Diabetes			
No	1678 (83.9%)	859 (85.9%)	2537 (84.6%)
Yes	322 (16.1%)	141 (14.1%)	463 (15.4%)
Systolic Blood Pressure (SBP) (mm/Hg)			
Mean (SD)	26.6 (8.02)	26.3 (7.88)	26.5 (7.97)
Median [Min, Max]	27.0 [1.00, 52.0]	26.0 [1.00, 51.0]	26.0 [1.00, 52.0]
Low-density lipoprotein cholesterol (LDL) (mg/dL)			
Mean (SD)	58.3 (19.7)	58.7 (19.7)	58.4 (19.7)
Median [Min, Max]	58.0 [1.00, 114]	58.0 [3.00, 112]	58.0 [1.00, 114]
Vaccination status at the time of infection (vaccine)			
Not vaccinated	797 (39.9%)	415 (41.5%)	1212 (40.4%)
Vaccinated	1203 (60.2%)	585 (58.5%)	1788 (59.6%)
Severity of COVID-19 infection (severity)			
Not severe	1785 (89.3%)	894 (89.4%)	2679 (89.3%)
Severe	215 (10.8%)	106 (10.6%)	321 (10.7%)
Time from COVID-19 infection to recovery (recovery_time) (days)			
Mean (SD)	39.4 (11.1)	42.8 (28.1)	40.5 (18.7)
Median [Min, Max]	39.0 [9.00, 107]	36.0 [1.00, 140]	38.0 [1.00, 140]

Model Fitting

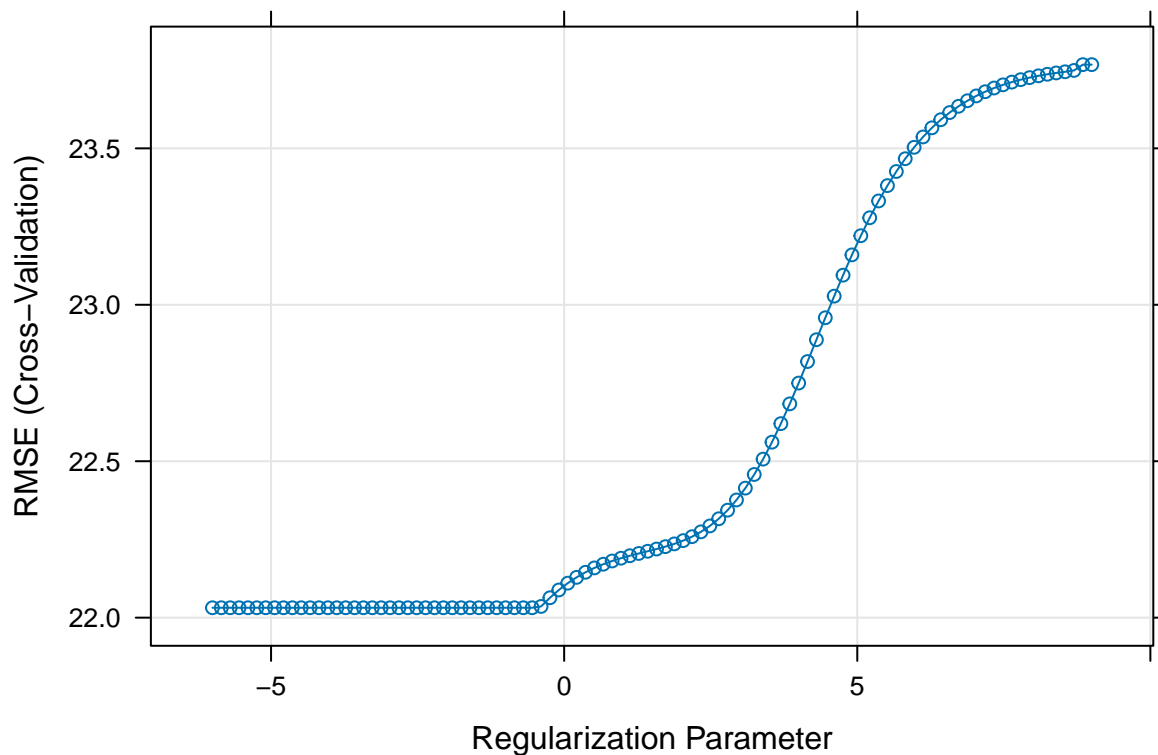
Ridge Regression

```
# setting a 10-fold cross-validation
ctrl <- trainControl(method = "cv", number = 10)

# ridge using `caret`
set.seed(2)

ridge.fit <- train(x, y,
  method = "glmnet",
  tuneGrid = expand.grid(alpha = 0,
    lambda = exp(seq(9, -6, length=100))),
  trControl = ctrl)

plot(ridge.fit, xTrans = log)
```



```
ridge.fit$bestTune
```

```
##      alpha      lambda
## 37      0 0.5795783
```

```
# coefficients in the final model
```

```
coef(ridge.fit$finalModel, s = ridge.fit$bestTune$lambda)
```

```
## 19 x 1 sparse Matrix of class "dgCMatrix"
```

```
##              s1
## (Intercept) -1.174063e+02
## id          3.216048e-04
## age         1.930739e-01
```

```
## gender      -2.490035e+00
## race2       2.098690e+00
## race3      -1.552059e+00
## race4      -6.429424e-01
## smoking1    2.430060e+00
## smoking2    2.883935e+00
## height      5.287125e-01
## weight     -8.998103e-01
## bmi         4.444267e+00
## hypertension 2.315258e+00
## diabetes    -2.048871e+00
## SBP         8.693633e-02
## LDL        -3.367851e-02
## vaccine    -6.877570e+00
## severity    8.295065e+00
## studyB      5.276166e+00

ridge.pred <- predict(ridge.fit, newdata = model.matrix(recovery_time ~ ., testing_data)[-1])

# test error
mean((ridge.pred - testing_data[, "recovery_time"])^2)

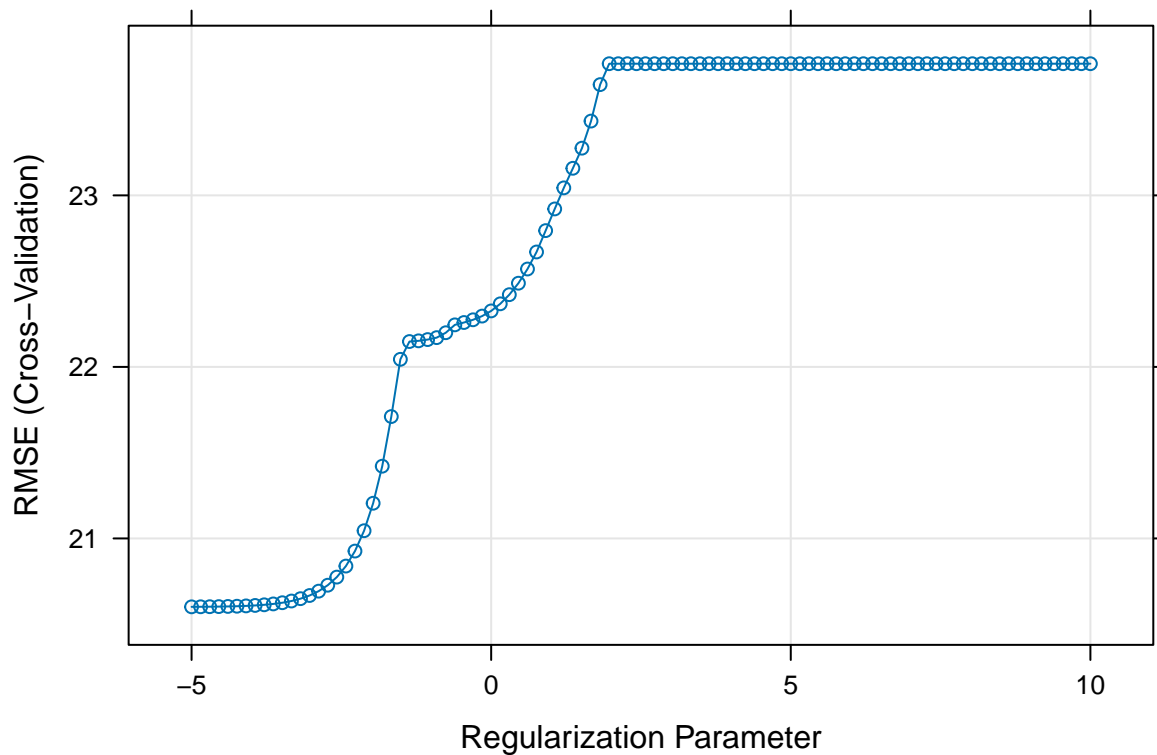
## [1] 336.7393
```

Lasso

```
set.seed(2)

# lasso using caret
lasso.fit <- train(x, y,
  method = "glmnet",
  tuneGrid = expand.grid(alpha = 1,
    lambda = exp(seq(10, -5, length=100))),
  trControl = ctrl)

plot(lasso.fit, xTrans = log)
```



```
lasso.fit$bestTune
```

```
##   alpha      lambda
## 1      1 0.006737947
```

```
# coefficients in the final model
```

```
coef(lasso.fit$finalModel, lasso.fit$bestTune$lambda)
```

```
## 19 x 1 sparse Matrix of class "dgCMatrix"
```

```
##              s1
## (Intercept) -2.271185e+03
## id           5.063120e-04
## age          2.003580e-01
## gender       -2.866032e+00
## race2        1.278141e+00
## race3       -1.808456e+00
## race4        .
## smoking1     2.494706e+00
## smoking2     2.784944e+00
## height       1.322999e+01
## weight      -1.435067e+01
## bmi          4.309086e+01
## hypertension 2.132095e+00
## diabetes     -1.620051e+00
## SBP          7.609604e-02
## LDL         -3.792133e-02
## vaccine     -6.804369e+00
## severity     8.226819e+00
## studyB       4.949873e+00
```

Elastic Net

```
set.seed(2)

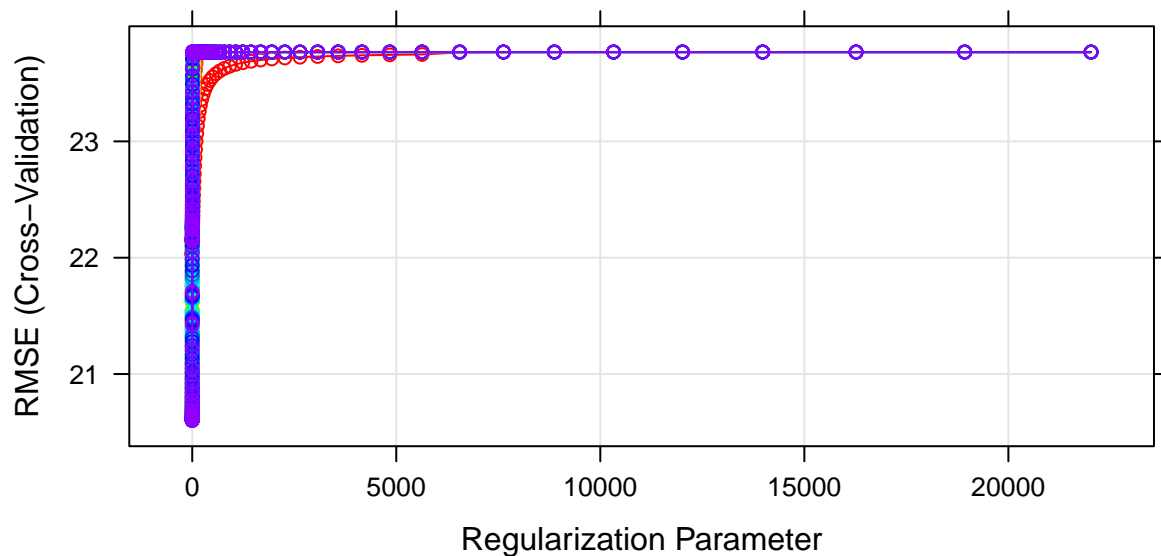
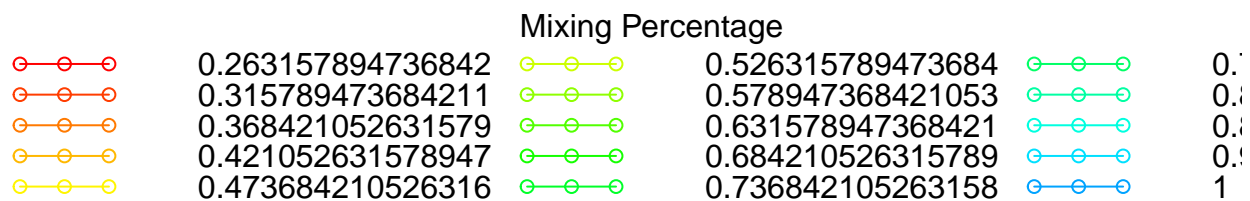
# elastic net using caret
enet.fit <- train(x, y,
  method = "glmnet",
  tuneGrid = expand.grid(alpha = seq(0, 1, length = 20),
    lambda = exp(seq(10, -5, length=100))),
  trControl = ctrl)

enet.fit$bestTune

##      alpha      lambda
## 1901      1 0.006737947

myCol <- rainbow(25)
myPar <- list(superpose.symbol = list(col = myCol),
  superpose.line = list(col = myCol))

plot(enet.fit, par.settings = myPar)
```



```
# coefficients in the final model
coef(enet.fit$finalModel, enet.fit$bestTune$lambda)
```

```
## 19 x 1 sparse Matrix of class "dgCMatrix"
##              s1
## (Intercept) -2.271185e+03
## id          5.063120e-04
## age         2.003580e-01
```

```
## gender      -2.866032e+00
## race2       1.278141e+00
## race3      -1.808456e+00
## race4       .
## smoking1    2.494706e+00
## smoking2    2.784944e+00
## height     1.322999e+01
## weight     -1.435067e+01
## bmi        4.309086e+01
## hypertension 2.132095e+00
## diabetes   -1.620051e+00
## SBP        7.609604e-02
## LDL       -3.792133e-02
## vaccine    -6.804369e+00
## severity   8.226819e+00
## studyB     4.949873e+00
```

PCR

```
set.seed(2)

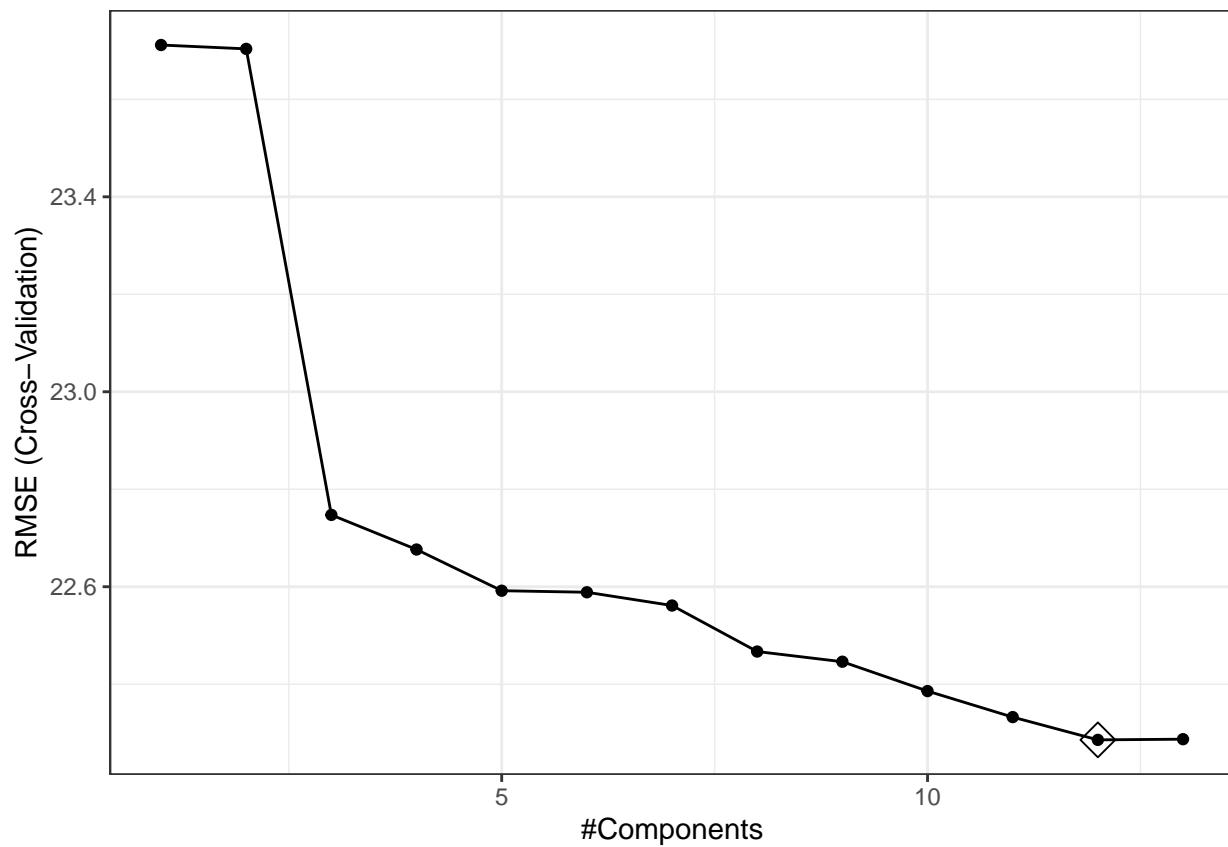
# pcr using caret
pcr.fit <- train(x, y,
                 method = "pcr",
                 tuneGrid = data.frame(ncomp = 1:13),
                 trControl = ctrl,
                 preProcess = c("center", "scale"))

predy2.pcr2 <- predict(pcr.fit, newdata = x2)

mean((y2 - predy2.pcr2)^2)

## [1] 345.8087

ggplot(pcr.fit, highlight = TRUE) + theme_bw()
```

PLS

```
set.seed(2)

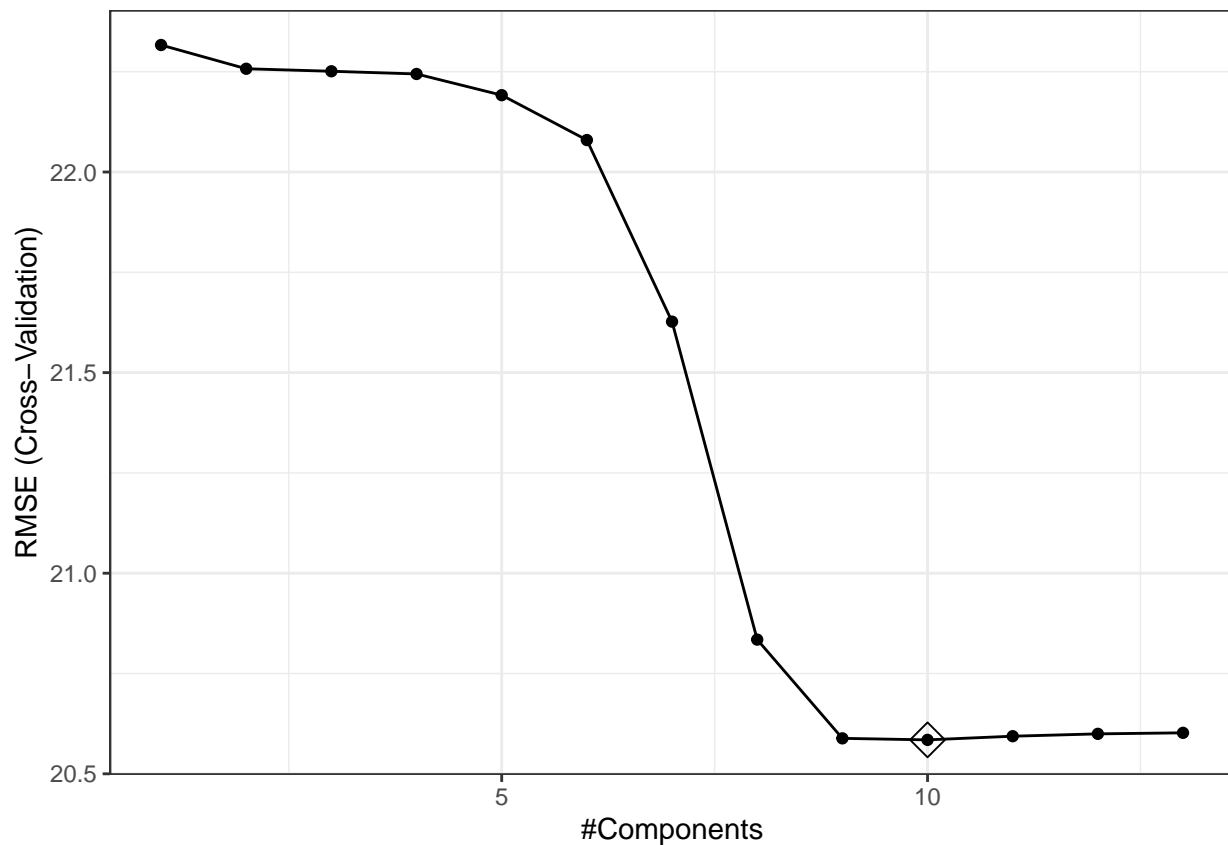
# pls using caret
pls.fit <- train(x, y,
  method = "pls",
  tuneGrid = data.frame(ncomp = 1:13),
  trControl = ctrl,
  preProcess = c("center", "scale"))

predy2.pls2 <- predict(pls.fit, newdata = x2)

mean((y2 - predy2.pls2)^2)

## [1] 327.9915

ggplot(pls.fit, highlight = TRUE) + theme_bw()
```



GAM

```
set.seed(2)

gam.fit <- train(x, y,
  method = "gam",
  tuneGrid = data.frame(method = "GCV.Cp",
    select = c(TRUE, FALSE)),
  trControl = ctrl)

gam.fit$bestTune

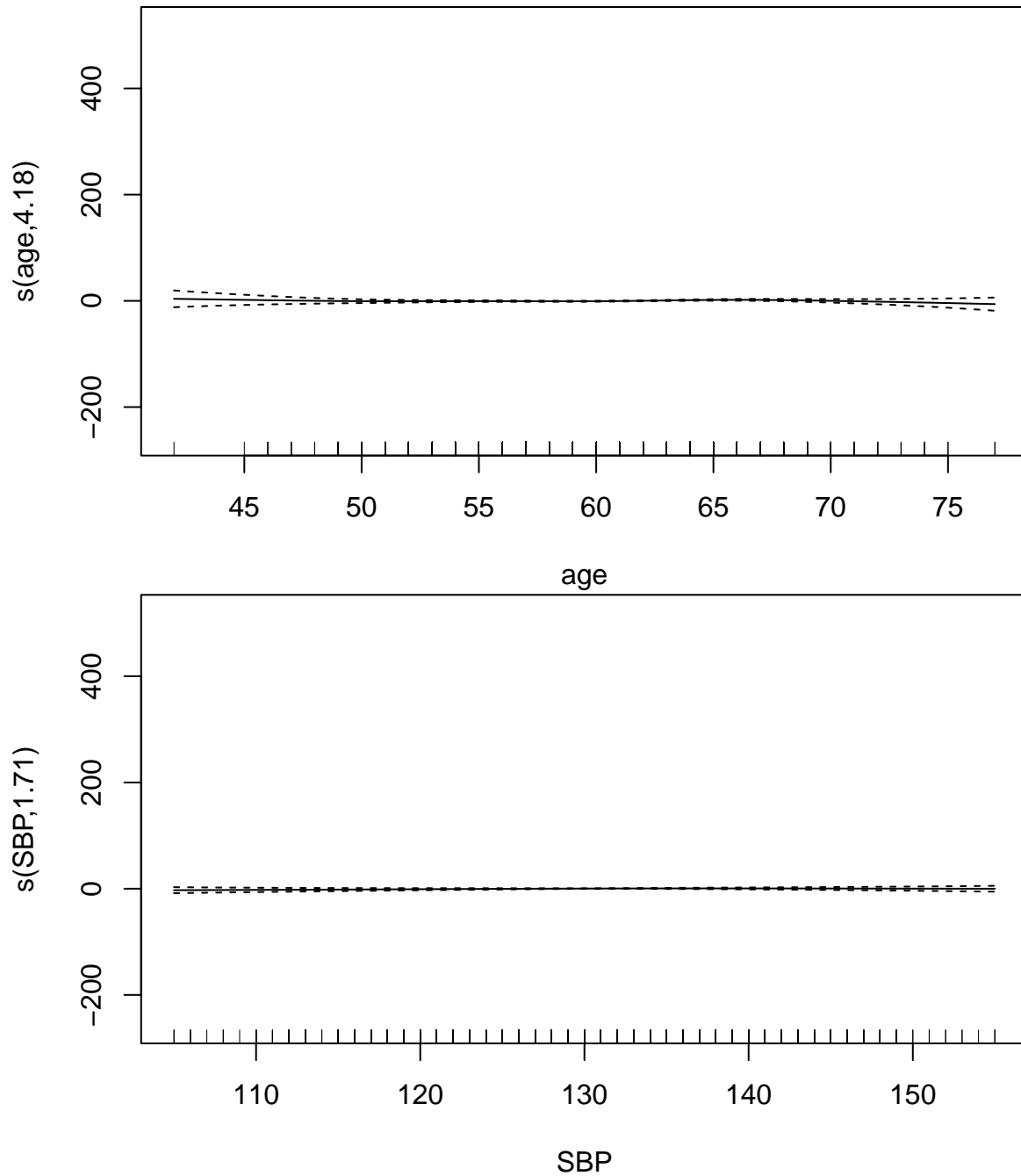
##  select method
## 1  FALSE GCV.Cp

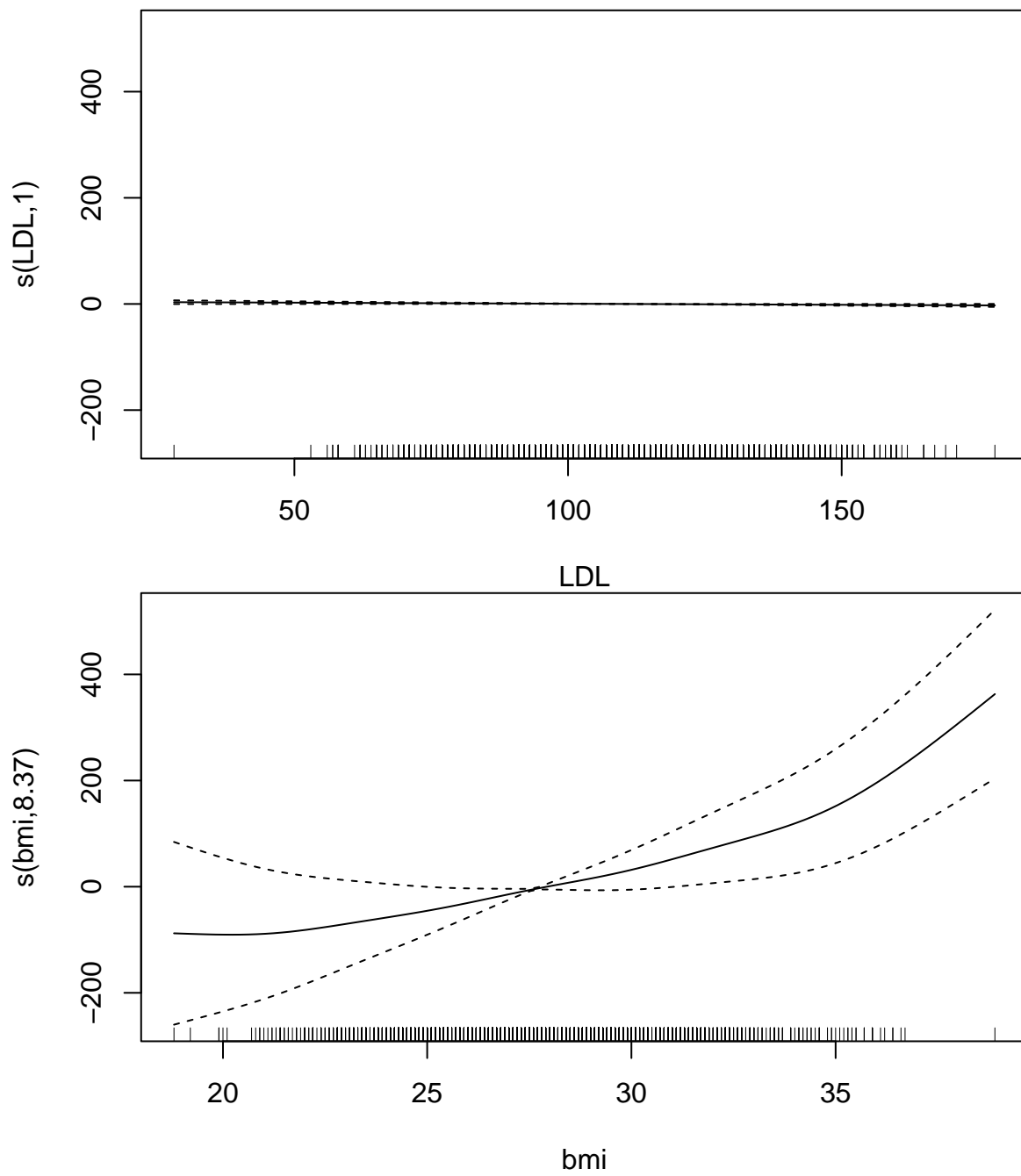
gam.fit$finalModel

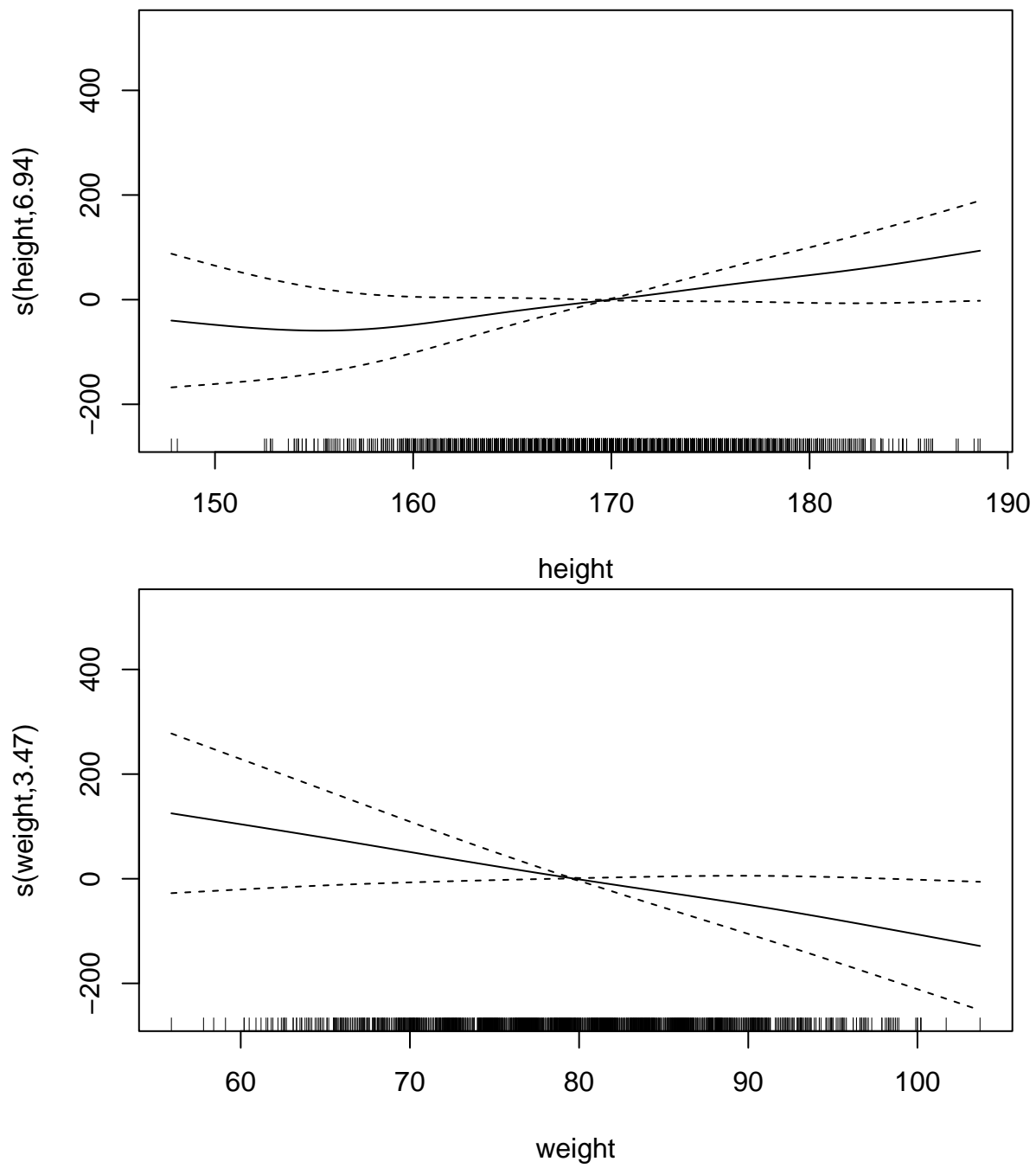
##
## Family: gaussian
## Link function: identity
##
## Formula:
## .outcome ~ gender + race2 + race3 + race4 + smoking1 + smoking2 +
##   hypertension + diabetes + vaccine + severity + studyB + s(age) +
##   s(SBP) + s(LDL) + s(bmi) + s(height) + s(weight) + s(id)
##
## Estimated degrees of freedom:
```

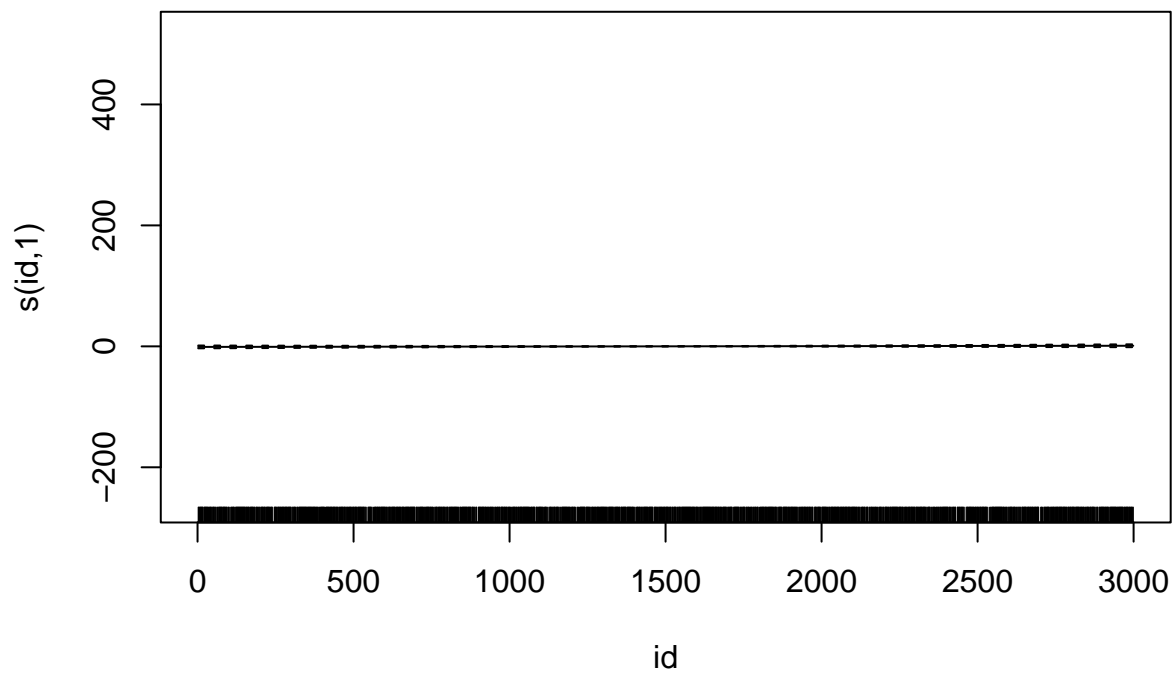
```
## 4.18 1.71 1.00 8.37 6.94 3.47 1.00  
## total = 38.67  
##  
## GCV score: 376.0881
```

```
plot(gam.fit$finalModel)
```









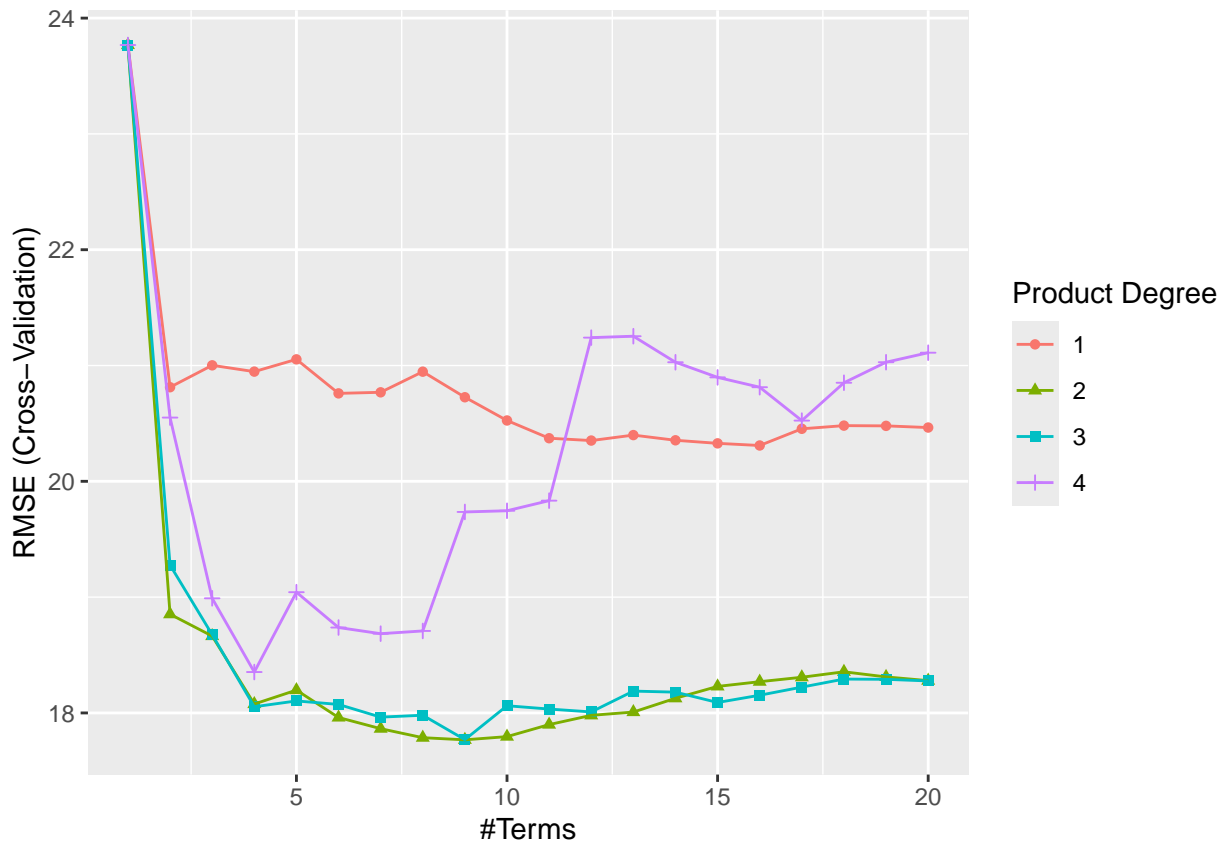
MARS

```
# set grid
mars_grid <- expand.grid(degree = 1:4, nprune = 1:20)

set.seed(2)

# fit a MARS model
mars.fit <- train(x, y,
                  method = "earth",
                  tuneGrid = mars_grid,
                  trControl = ctrl)

# plot
ggplot(mars.fit)
```



```
# best tuning parameters
```

```
mars.fit$bestTune
```

```
##      nprune degree
```

```
## 29      9      2
```

```
# regression function
```

```
mars.fit$finalModel
```

```
## Selected 9 of 28 terms, and 6 of 18 predictors (nprune=9)
```

```
## Termination condition: Reached nk 37
```

```
## Importance: bmi, studyB, height, vaccine, severity, weight, id-unused, ...
```

```
## Number of terms at each degree of interaction: 1 3 5
```

```
## GCV 298.3891    RSS 703656.4    GRSq 0.4847193    RSq 0.493275
```

```
# report the regression function
```

```
summary(mars.fit)
```

```
## Call: earth(x=matrix[2400,18], y=c(30,39,9,40,50...), keepxy=TRUE, degree=2,
```

```
##           nprune=9)
```

```
##
```

```
##               coefficients
```

```
## (Intercept)      -5.2669231
```

```
## vaccine          -6.3585662
```

```
## h(bmi-24.5)       7.7118874
```

```
## h(30.9-bmi)       6.9728117
```

```
## h(bmi-24.5) * severity 1.8498609
```

```
## h(bmi-30.9) * studyB 25.7460428
```

```
## h(159-height) * h(bmi-30.9) 2.8177334
```

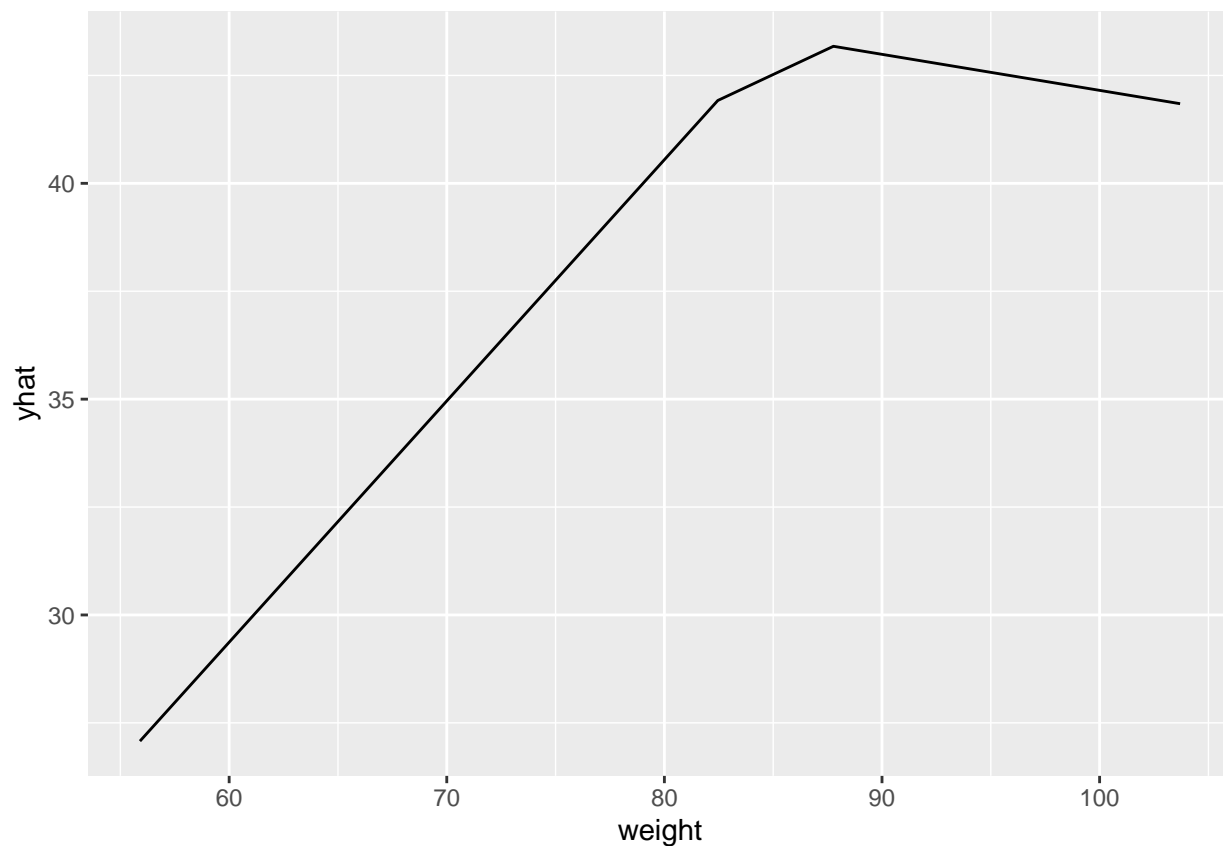
```
## h(85.1-weight) * h(bmi-30.9) -2.7210715
## h(weight-85.1) * h(bmi-30.9) -0.4065098
##
## Selected 9 of 28 terms, and 6 of 18 predictors (nprune=9)
## Termination condition: Reached nk 37
## Importance: bmi, studyB, height, vaccine, severity, weight, id-unused, ...
## Number of terms at each degree of interaction: 1 3 5
## GCV 298.3891    RSS 703656.4    GRSq 0.4847193    RSq 0.493275
```

```
coef(mars.fit$finalModel)
```

```
##              (Intercept)              h(30.9-bmi)
##              -5.2669231              6.9728117
##      h(bmi-30.9) * studyB              h(bmi-24.5)
##              25.7460428              7.7118874
##      h(159-height) * h(bmi-30.9)              vaccine
##              2.8177334              -6.3585662
##      h(bmi-24.5) * severity h(weight-85.1) * h(bmi-30.9)
##              1.8498609              -0.4065098
##      h(85.1-weight) * h(bmi-30.9)
##              -2.7210715
```

```
# partial dependence plot on a predictors of interest, study
p1 <- pdp::partial(mars.fit, pred.var = c("weight"), grid.resolution = 10) |>
  autoplot()
```

p1




```
# test error
pred.mars <- predict(mars.fit, newdata = testing_data)

test.error.mars <- mean((pred.mars - y2)^2)
```

Linear Model

```
set.seed(2)

# fit a linear model
lm.fit <- train(x, y,
               method = "lm",
               trControl = ctrl)

summary(lm.fit)

##
## Call:
## lm(formula = .outcome ~ ., data = dat)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -57.546 -11.443  -0.021   8.724 252.302
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -2.370e+03  1.194e+02 -19.850 < 2e-16 ***
## id           5.275e-04  8.423e-04   0.626  0.53120
## age          2.018e-01  1.049e-01   1.922  0.05466 .
## gender       -2.895e+00  8.457e-01  -3.423  0.00063 ***
## race2         1.263e+00  1.852e+00   0.682  0.49510
## race3        -1.838e+00  1.086e+00  -1.692  0.09079 .
## race4         8.259e-03  1.522e+00   0.005  0.99567
## smoking1      2.514e+00  9.555e-01   2.631  0.00857 **
## smoking2      2.804e+00  1.413e+00   1.985  0.04724 *
## height        1.381e+01  7.003e-01  19.726 < 2e-16 ***
## weight       -1.497e+01  7.398e-01 -20.234 < 2e-16 ***
## bmi           4.486e+01  2.123e+00  21.133 < 2e-16 ***
## hypertension  2.126e+00  1.401e+00   1.518  0.12907
## diabetes     -1.617e+00  1.173e+00  -1.378  0.16825
## SBP           7.630e-02  9.170e-02   0.832  0.40545
## LDL          -3.861e-02  2.253e-02  -1.714  0.08666 .
## vaccine       -6.808e+00  8.639e-01  -7.880 4.92e-15 ***
## severity      8.236e+00  1.362e+00   6.049 1.69e-09 ***
## studyB        4.924e+00  1.556e+00   3.164  0.00158 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 20.65 on 2381 degrees of freedom
## Multiple R-squared:  0.2685, Adjusted R-squared:  0.263
## F-statistic: 48.55 on 18 and 2381 DF, p-value: < 2.2e-16
```

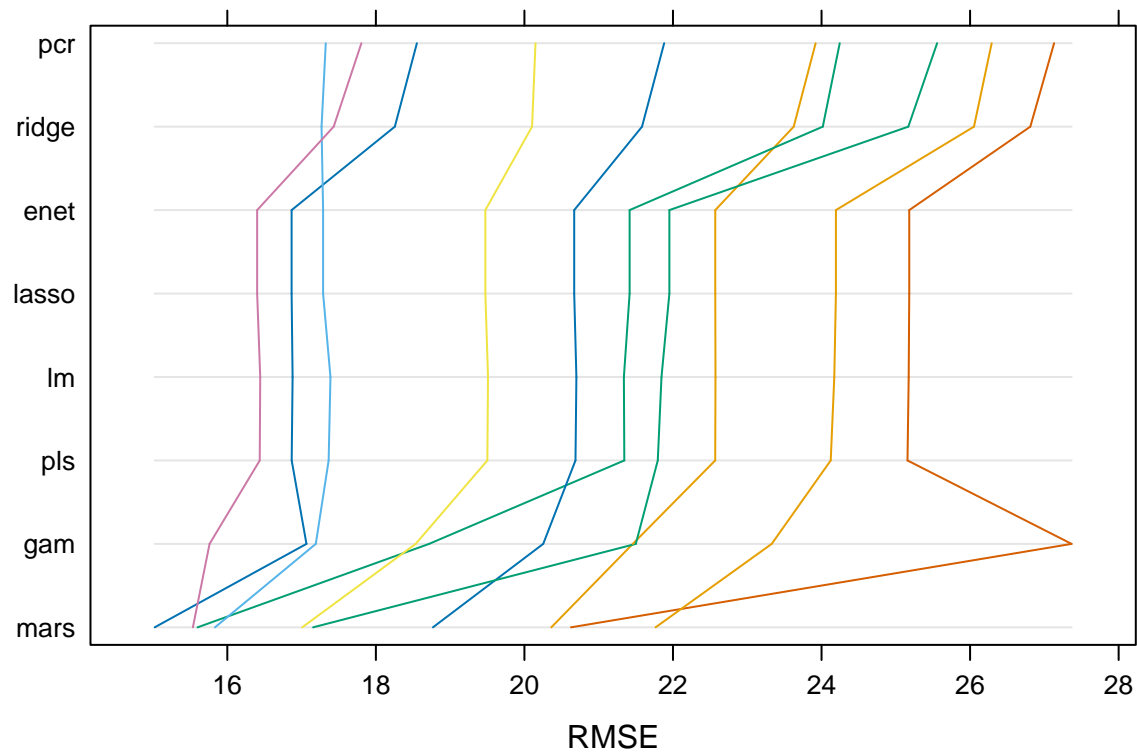
Model Comparison

```
# compare models
resamp <- resamples(list(ridge = ridge.fit, lasso = lasso.fit, enet = enet.fit, pcr = pcr.fit, pls = pls.fit))

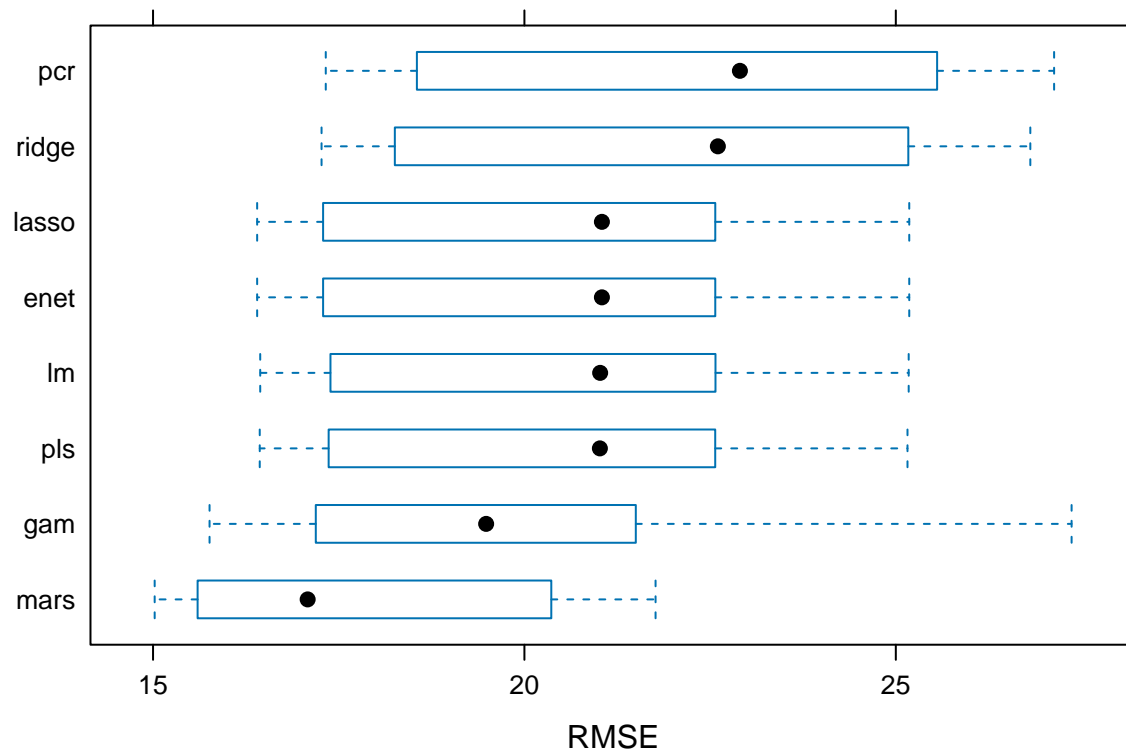
summary(resamp)
```

```
##
## Call:
## summary.resamples(object = resamp)
##
## Models: ridge, lasso, enet, pcr, pls, gam, mars, lm
## Number of resamples: 10
##
## MAE
##      Min.   1st Qu.   Median     Mean   3rd Qu.     Max. NA's
## ridge 11.95419 13.09713 13.82525 13.60576 14.27556 14.43242    0
## lasso 12.42432 12.87440 13.67856 13.59012 14.17276 14.78653    0
## enet  12.42432 12.87440 13.67856 13.59012 14.17276 14.78653    0
## pcr   11.97817 13.37654 13.95859 13.78445 14.46120 14.63802    0
## pls   12.46034 12.94421 13.71400 13.64253 14.19205 14.89051    0
## gam   11.89583 12.28734 12.84104 13.01002 13.69248 14.55730    0
## mars  11.02436 11.21466 11.96777 12.04809 12.77086 13.61189    0
## lm    12.47367 12.97157 13.69829 13.64742 14.22819 14.88266    0
##
## RMSE
##      Min.   1st Qu.   Median     Mean   3rd Qu.     Max. NA's
## ridge 17.26900 18.71725 22.60420 22.03160 24.88056 26.81073    0
## lasso 16.40186 17.83574 21.04329 20.60128 22.41492 25.18080    0
## enet  16.40186 17.83574 21.04329 20.60128 22.41492 25.18080    0
## pcr   17.32552 18.95158 22.90113 22.28578 25.22850 27.13115    0
## pls   16.43656 17.89855 21.01607 20.58459 22.37527 25.15740    0
## gam   15.76082 17.52743 19.48463 20.11772 21.48924 27.36675    0
## mars  15.02199 15.65849 17.08160 17.76782 19.96343 21.76556    0
## lm    16.44321 17.91892 21.01935 20.60218 22.39042 25.17347    0
##
## Rsquared
##      Min.   1st Qu.   Median     Mean   3rd Qu.     Max. NA's
## ridge 0.08393988 0.1239158 0.1445848 0.1485488 0.1761223 0.2026307    0
## lasso 0.15522528 0.2192565 0.2576243 0.2613936 0.2778165 0.3785837    0
## enet  0.15522528 0.2192565 0.2576243 0.2613936 0.2778165 0.3785837    0
## pcr   0.07966331 0.1009466 0.1239078 0.1290165 0.1627291 0.1766716    0
## pls   0.15652309 0.2190345 0.2581140 0.2630034 0.2791654 0.3806098    0
## gam   0.18624192 0.2451659 0.3119389 0.3094201 0.3443334 0.5114948    0
## mars  0.32424416 0.3693999 0.4073587 0.4405951 0.4634952 0.6618530    0
## lm    0.15588370 0.2176346 0.2576008 0.2618155 0.2782721 0.3808718    0

parallelplot(resamp, metric = "RMSE")
```



```
bwplot(resamp, metric = "RMSE")
```



MARS has lowest mean and median RMSE -> model I pick