

Data Science II Midterm Project Analysis

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Contents

Exploratory analysis and data visualization	114
Model Fitting	115
Ridge Regression	115
Lasso	116
Elastic Net	118
PCR	120
PLS	120
GAM	121
MARS	129
Linear Model	132
Model Comparison	133

```
library(tidymodels)
library(splines)
library(caret)
```

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
## 293	123	1	0	A	30
## 294	83	0	0	A	23
## 295	114	1	0	A	38
## 296	89	1	0	A	41
## 297	102	1	0	A	57
## 298	113	1	0	A	40
## 299	108	1	0	A	32
## 300	116	0	0	A	44
## 301	123	1	0	A	49
## 302	129	0	0	A	32
## 303	122	1	0	A	43
## 304	142	0	0	A	44
## 305	121	1	0	A	42
## 306	115	0	0	A	27
## 307	115	1	0	A	42
## 308	130	1	0	A	36
## 309	117	1	1	A	53
## 310	99	1	0	A	62
## 311	105	1	0	A	39
## 312	114	0	0	A	45
## 313	70	1	0	A	30
## 314	115	1	0	A	29
## 315	118	0	0	A	46
## 316	88	0	0	A	34
## 317	141	0	0	A	49
## 318	120	1	0	A	58
## 319	91	0	0	A	12
## 320	126	1	0	A	55
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## 907	131	1	0	A	48
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## 913	119	1	0	A	65
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## 938	85	0	0	A	34
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## 941	96	0	0	A	16
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## 948	113	1	0	A	37
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## 1464 101	1	0	A	21
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## 1466 117	0	0	A	35
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## 1468 113	0	0	A	44

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## 1472 113	0	0	A	30
## 1473 103	0	0	A	53
## 1474 133	1	0	A	36
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## 1476 90	0	0	A	43
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## 1480 144	1	0	A	48
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## 1639 111	1	0	A	41
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## 1649 134	0	0	A	44
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## 1894 143	0	0	A	51
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## 1897 138	0	0	A	41
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## 1903 124	1	0	A	40
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## 1933 97	0	0	A	29
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## 1935 127	0	0	A	52
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## 1952 119	0	0	A	37
## 1953 123	1	0	A	45
## 1954 126	1	0	A	64

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## 1957 152	1	0	A	51
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## 1985 86	0	0	A	49
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## 1987 112	1	0	A	39
## 1988 123	1	1	A	41
## 1989 138	1	0	A	24
## 1990 133	1	1	A	47
## 1991 102	1	0	A	34
## 1992 108	0	0	A	39
## 1993 109	0	0	A	37
## 1994 110	0	0	A	33
## 1995 98	1	0	A	28
## 1996 101	0	0	A	52
## 1997 87	1	0	A	59
## 1998 91	0	0	A	34
## 1999 121	1	0	A	40
## 2000 123	0	0	A	32
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## 2003 115	1	0	B	20
## 2004 101	0	1	B	52
## 2005 104	0	0	B	41
## 2006 131	0	1	B	97
## 2007 104	0	0	B	61
## 2008 121	1	0	B	15

## 2009 131	0	0	B	79
## 2010 80	1	0	B	13
## 2011 82	1	0	B	36
## 2012 99	0	0	B	34
## 2013 105	0	1	B	33
## 2014 75	0	0	B	24
## 2015 97	0	0	B	77
## 2016 135	0	1	B	172
## 2017 122	1	0	B	10
## 2018 124	0	0	B	56
## 2019 105	1	0	B	5
## 2020 89	1	1	B	44
## 2021 126	1	0	B	23
## 2022 124	1	0	B	56
## 2023 101	0	0	B	105
## 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
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## 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
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## 2050 119	1	0	B	13
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## 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

Model Fitting

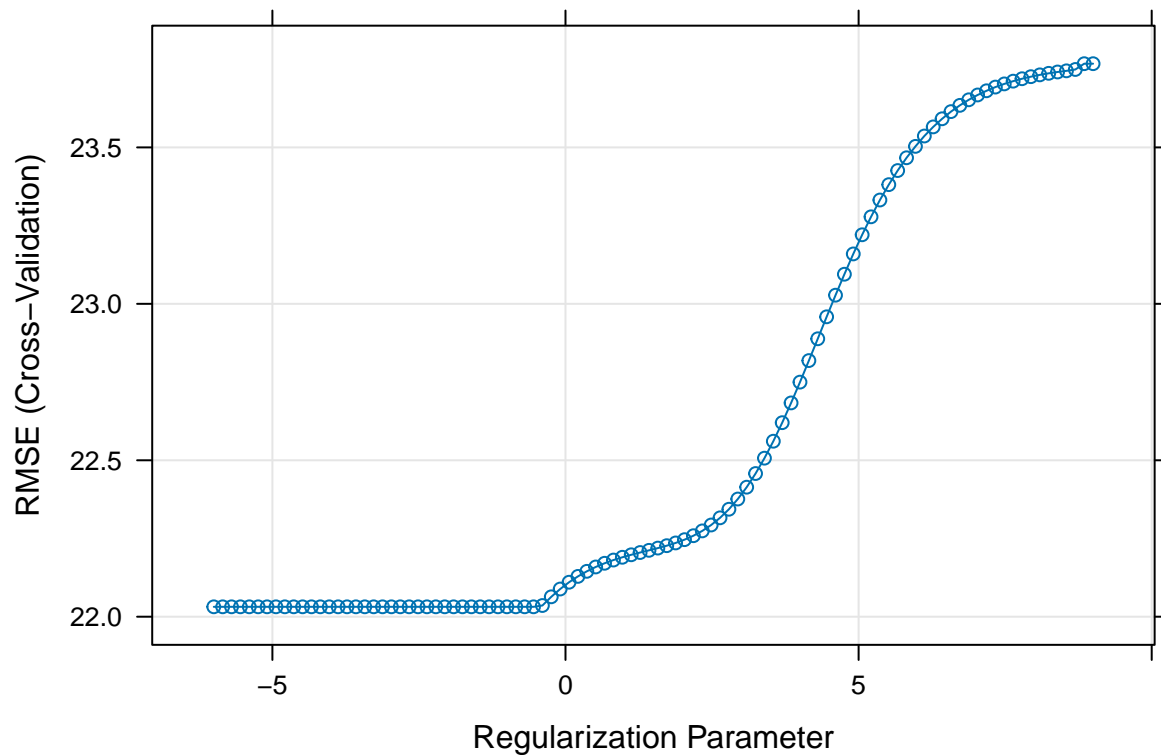
Ridge Regression

```
# 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

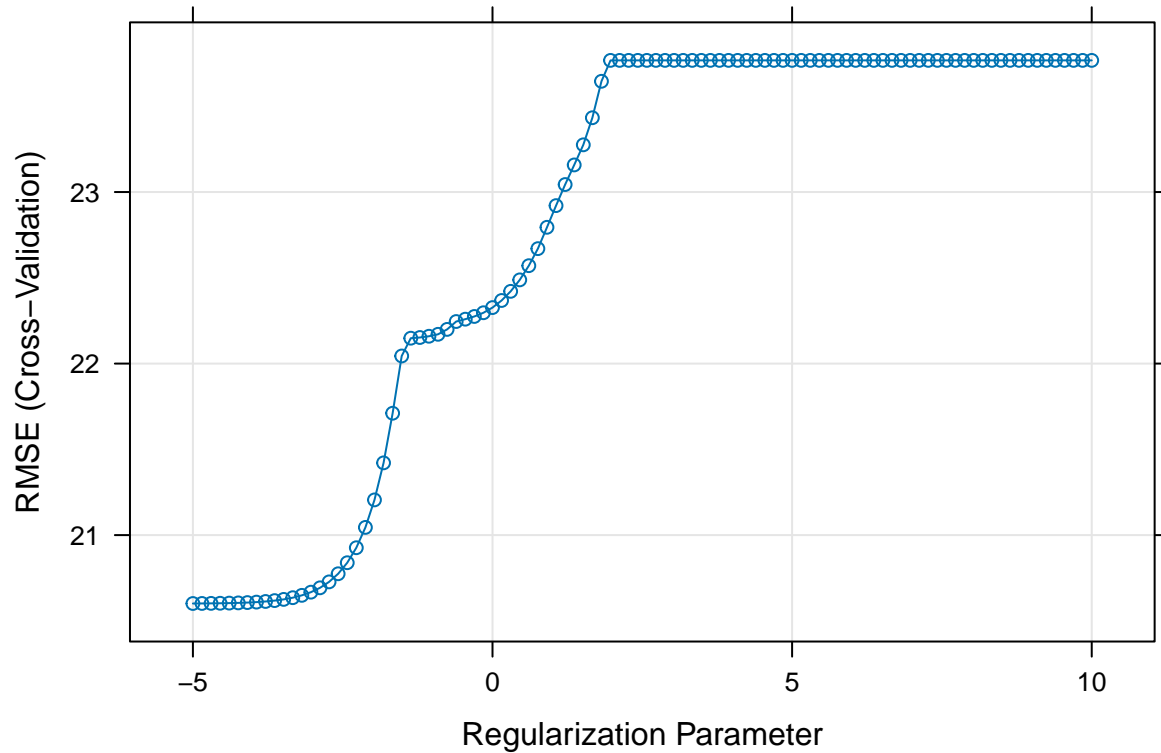
```

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)

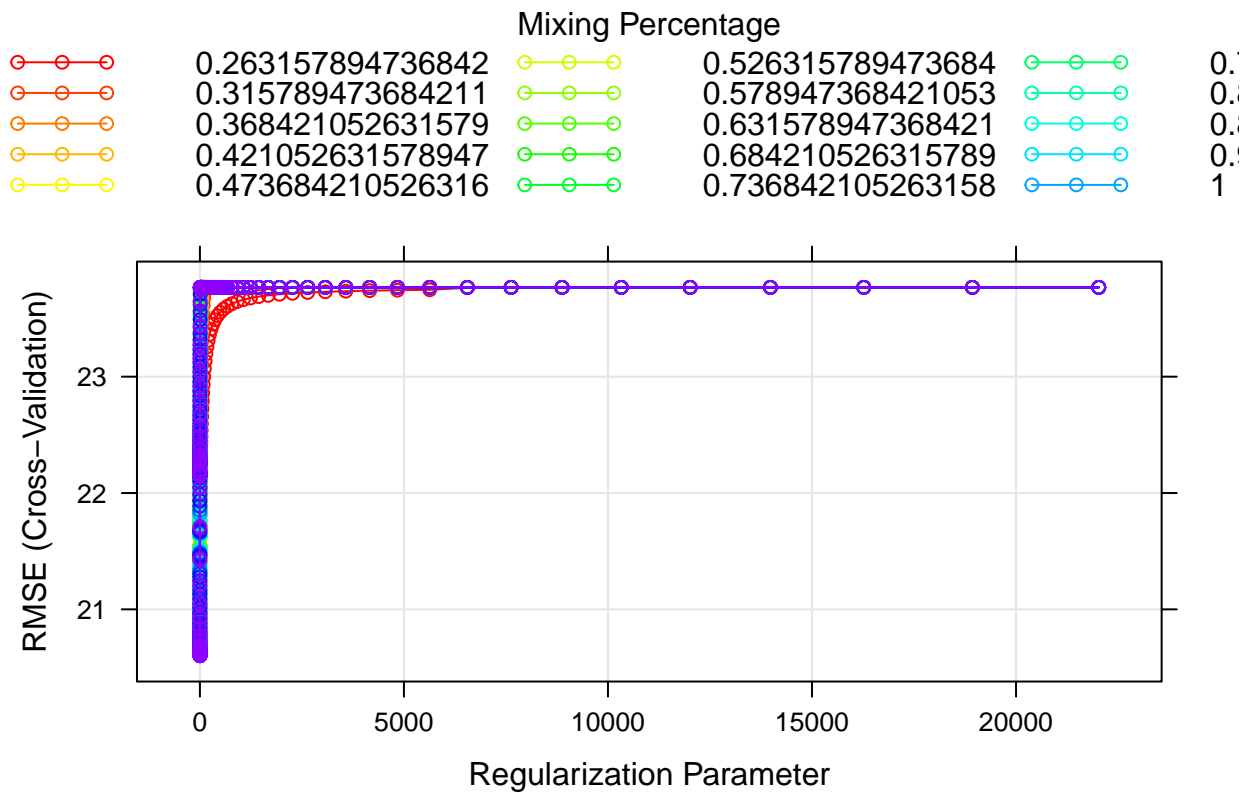
# elastic net using caret
enet.fit <- train(x, y,
                  method = "glmnet",
                  tuneGrid = expand.grid(alpha = seq(0, 1, length = 20),
                                         lambda = exp(seq(10, -5, length=100))),
                  trControl = ctrl)

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)

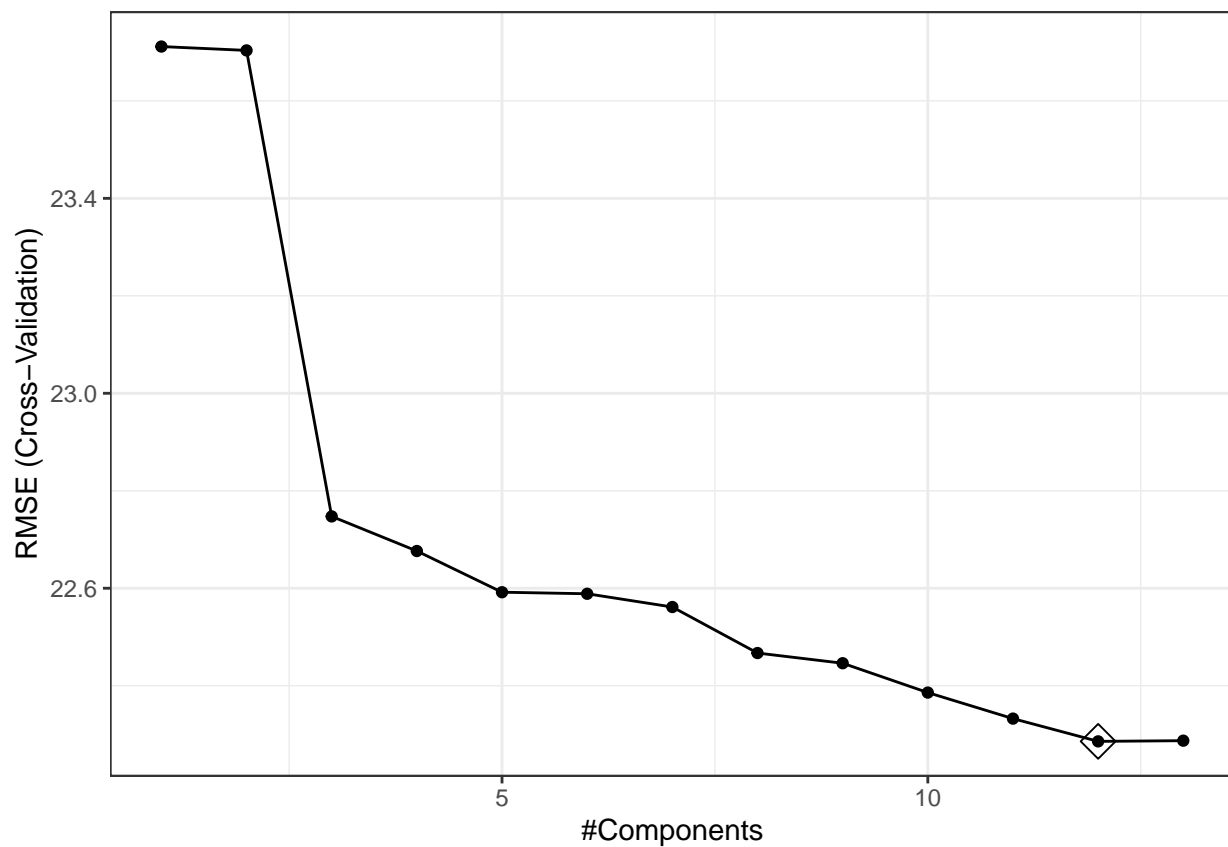
# pcr using caret
pcr.fit <- train(x, y,
  method = "pcr",
  tuneGrid = data.frame(ncomp = 1:13),
  trControl = ctrl,
  preProcess = c("center", "scale"))

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)

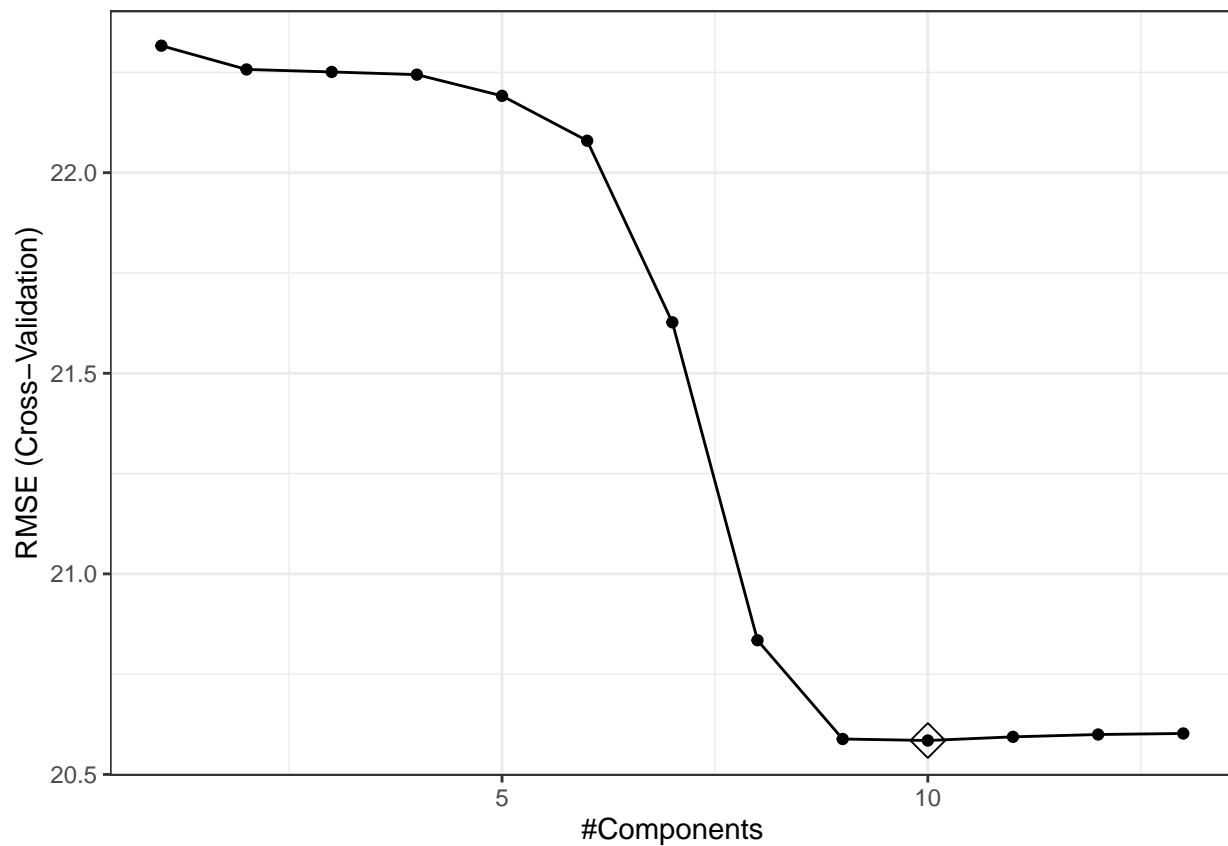
# pls using caret
pls.fit <- train(x, y,
  method = "pls",
  tuneGrid = data.frame(ncomp = 1:13),
  trControl = ctrl,
  preProcess = c("center", "scale"))

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)

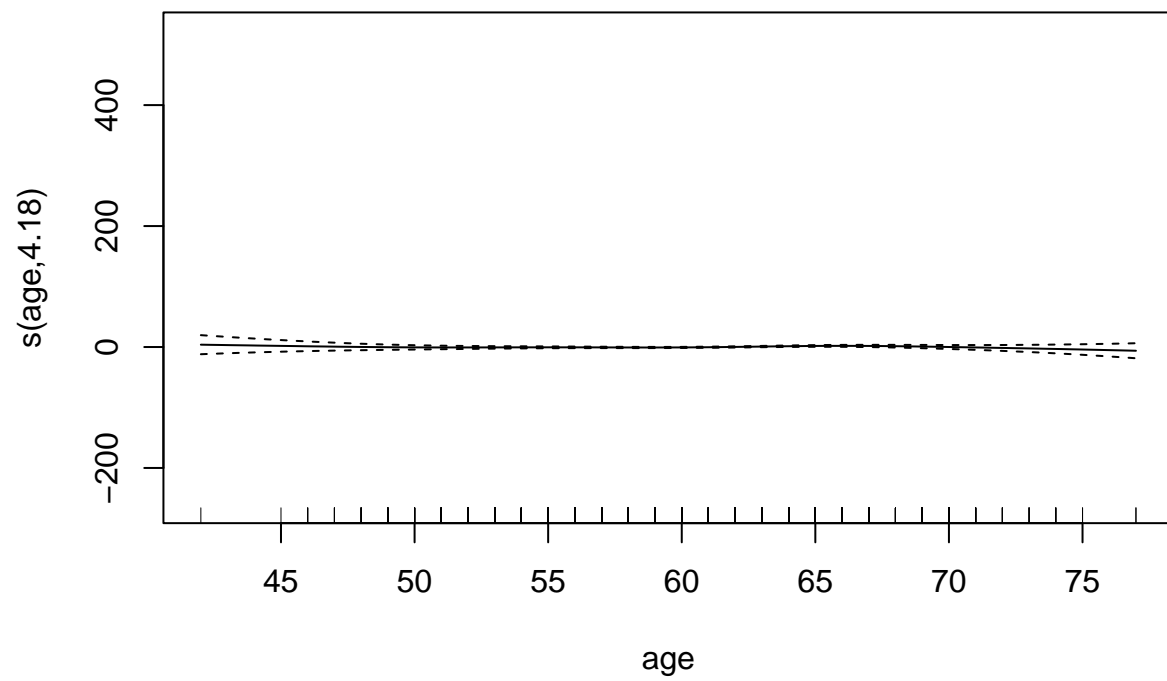
gam.fit$bestTune

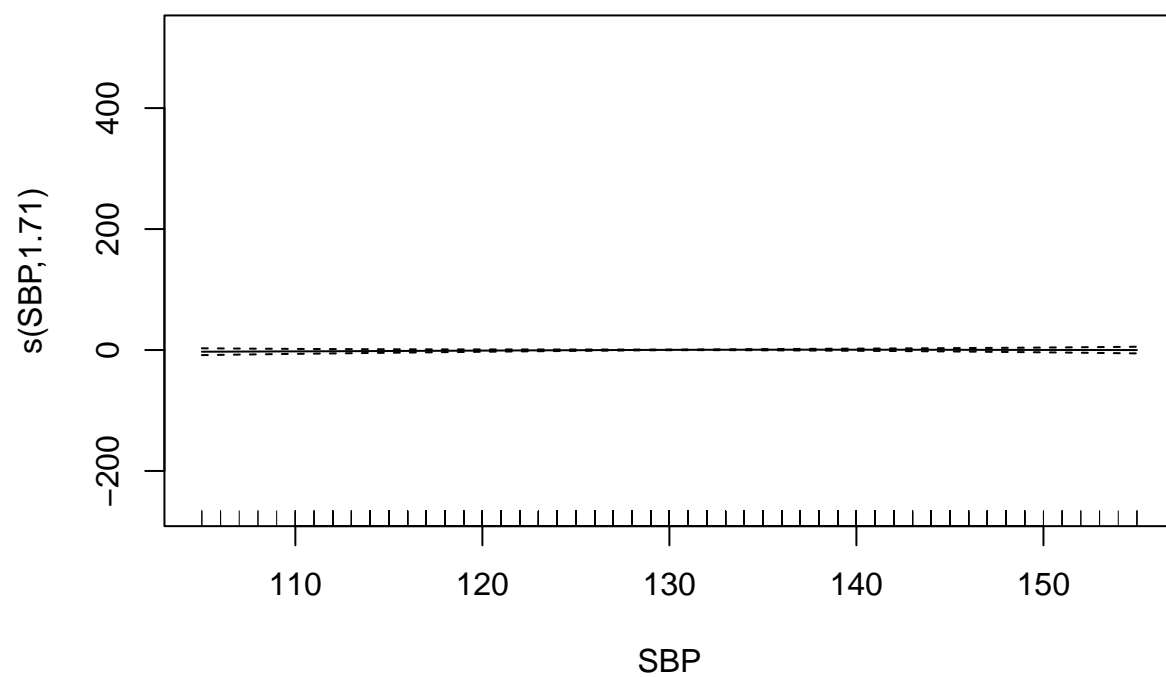
## select method
## 1 FALSE GCV.Cp

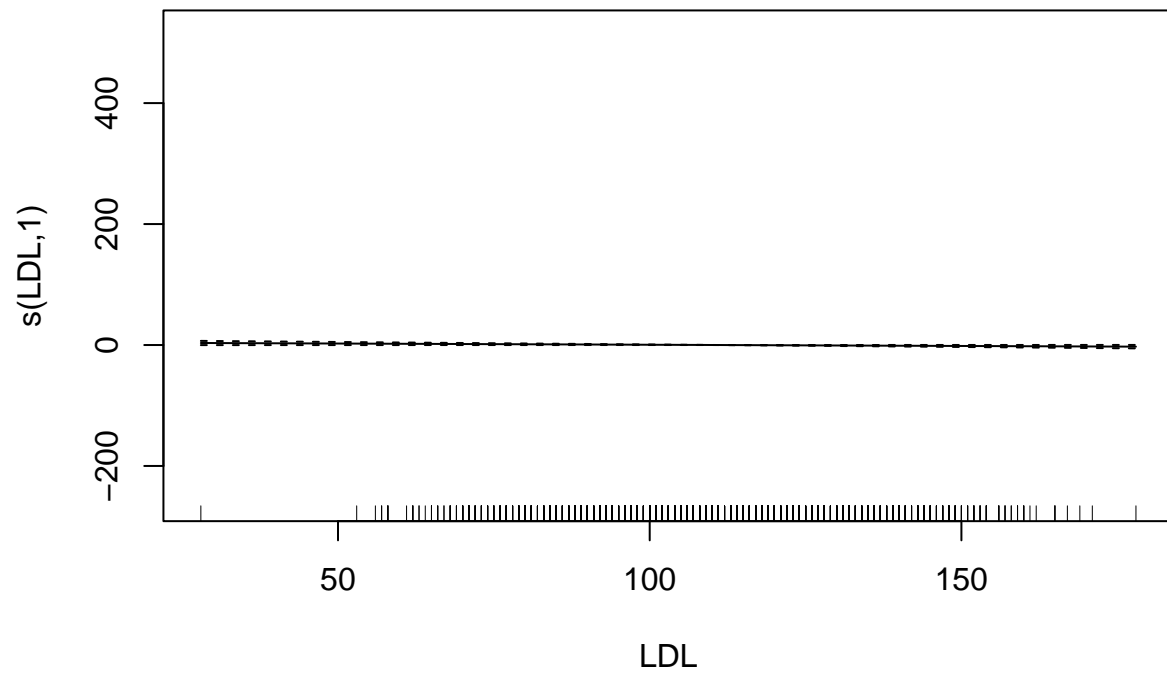
gam.fit$finalModel

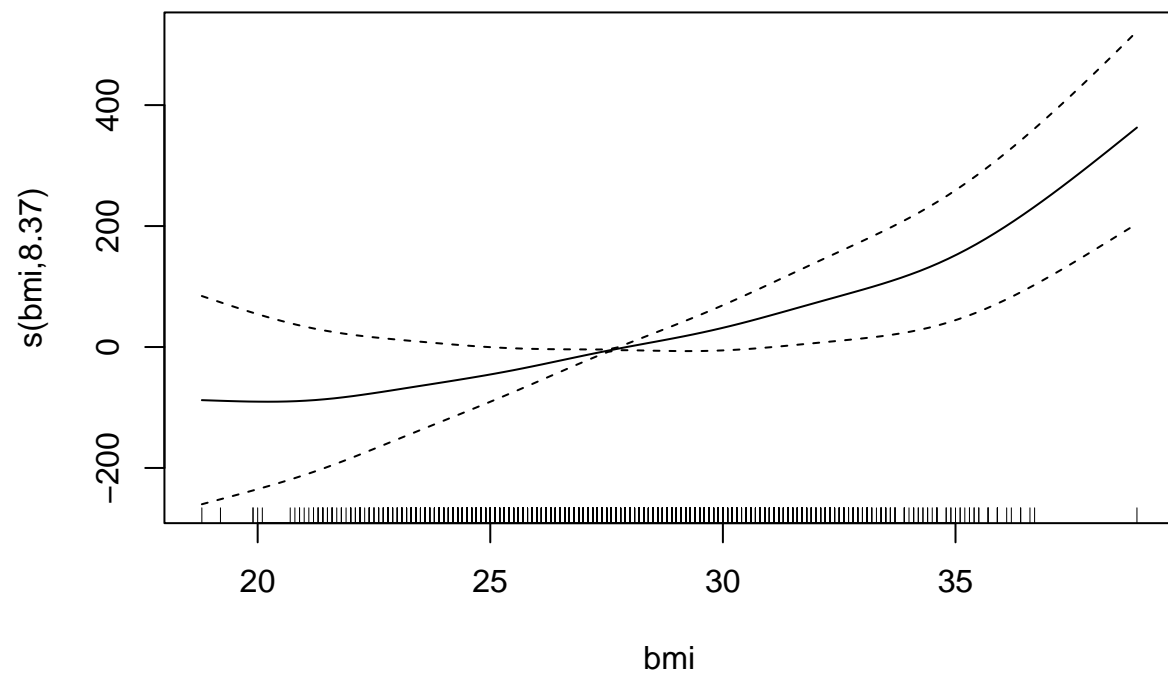
##
## Family: gaussian
## Link function: identity
##
## Formula:
## .outcome ~ gender + race2 + race3 + race4 + smoking1 + smoking2 +
##      hypertension + diabetes + vaccine + severity + studyB + s(age) +
##      s(SBP) + s(LDL) + s(bmi) + s(height) + s(weight) + s(id)
##
## Estimated degrees of freedom:
## 4.18 1.71 1.00 8.37 6.94 3.47 1.00
## total = 38.67
##
## GCV score: 376.0881

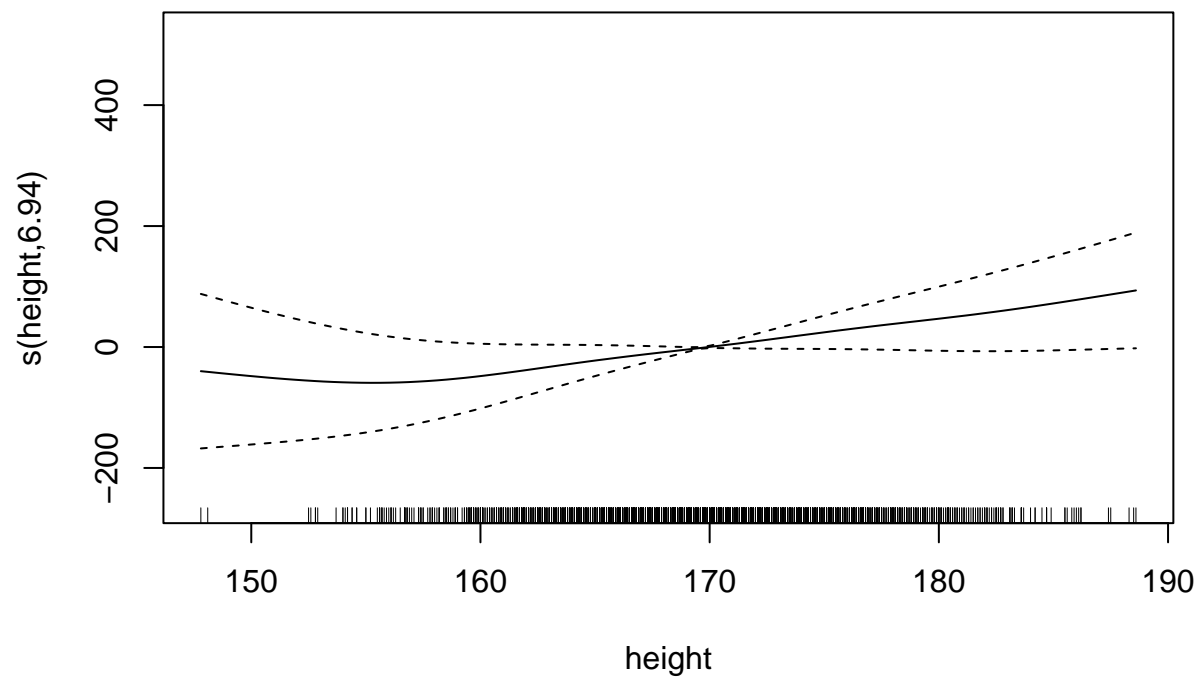
plot(gam.fit$finalModel)
```

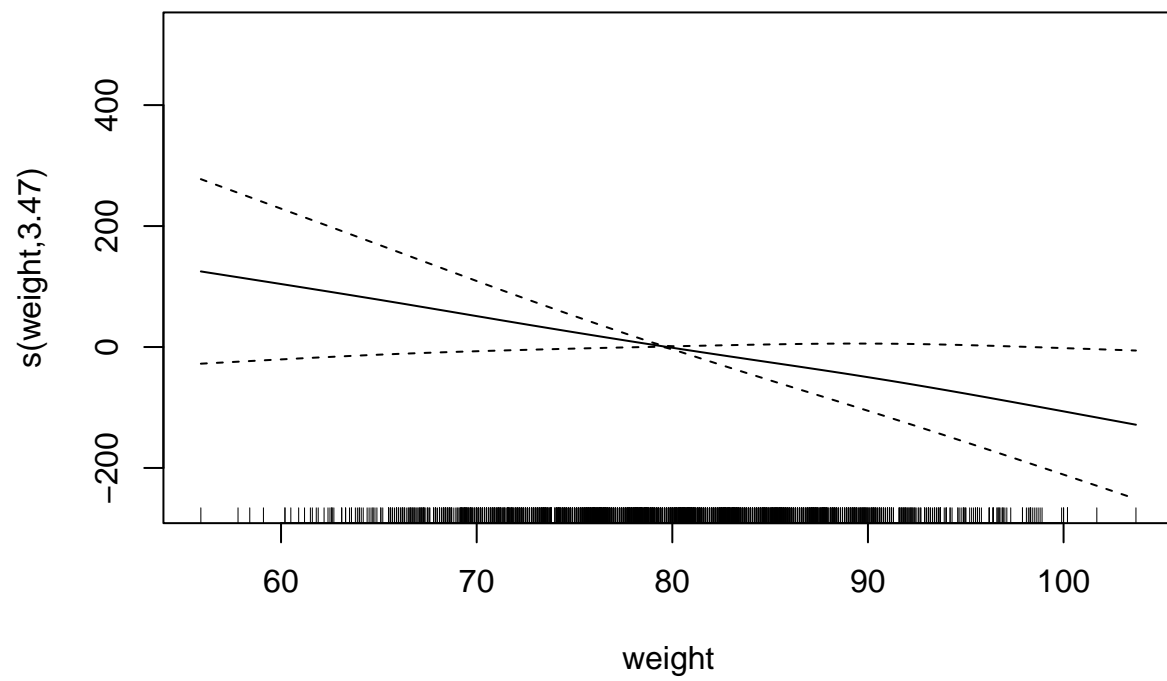


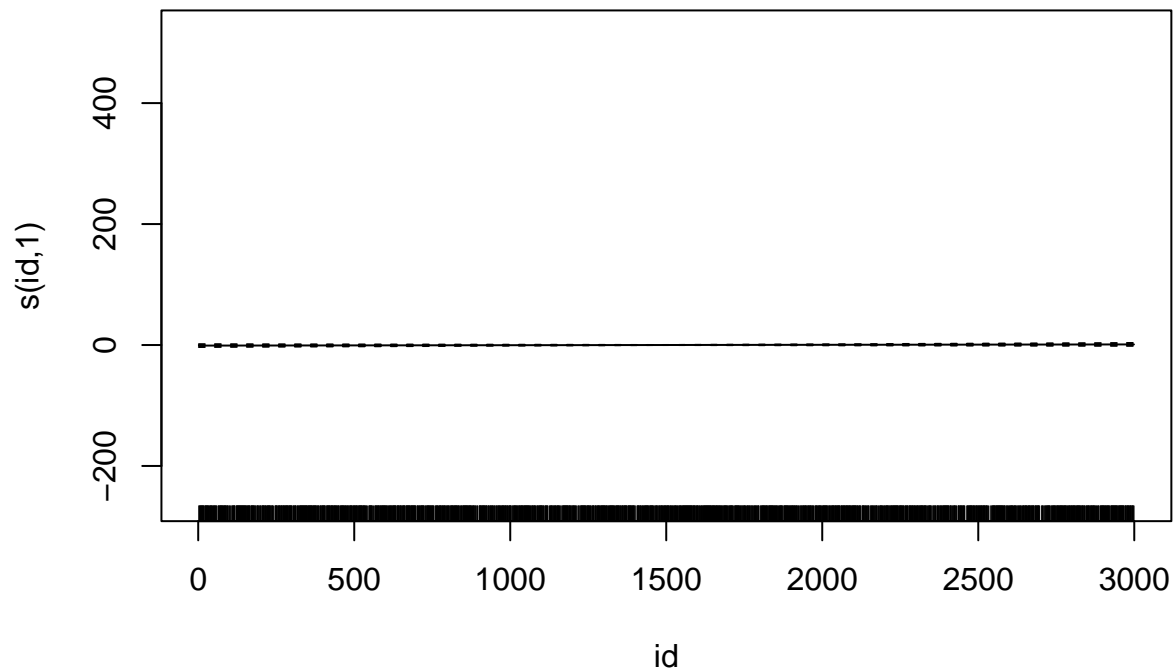












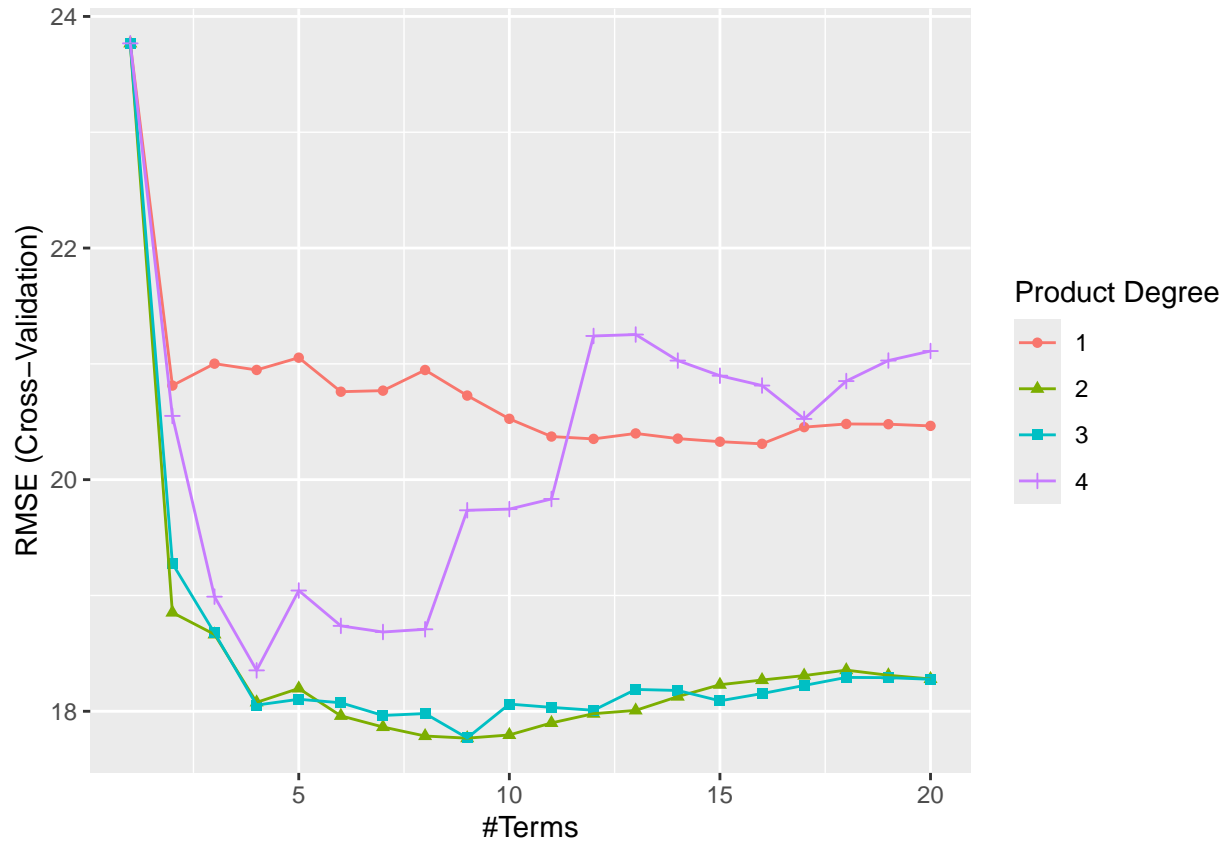
MARS

```
# 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
```

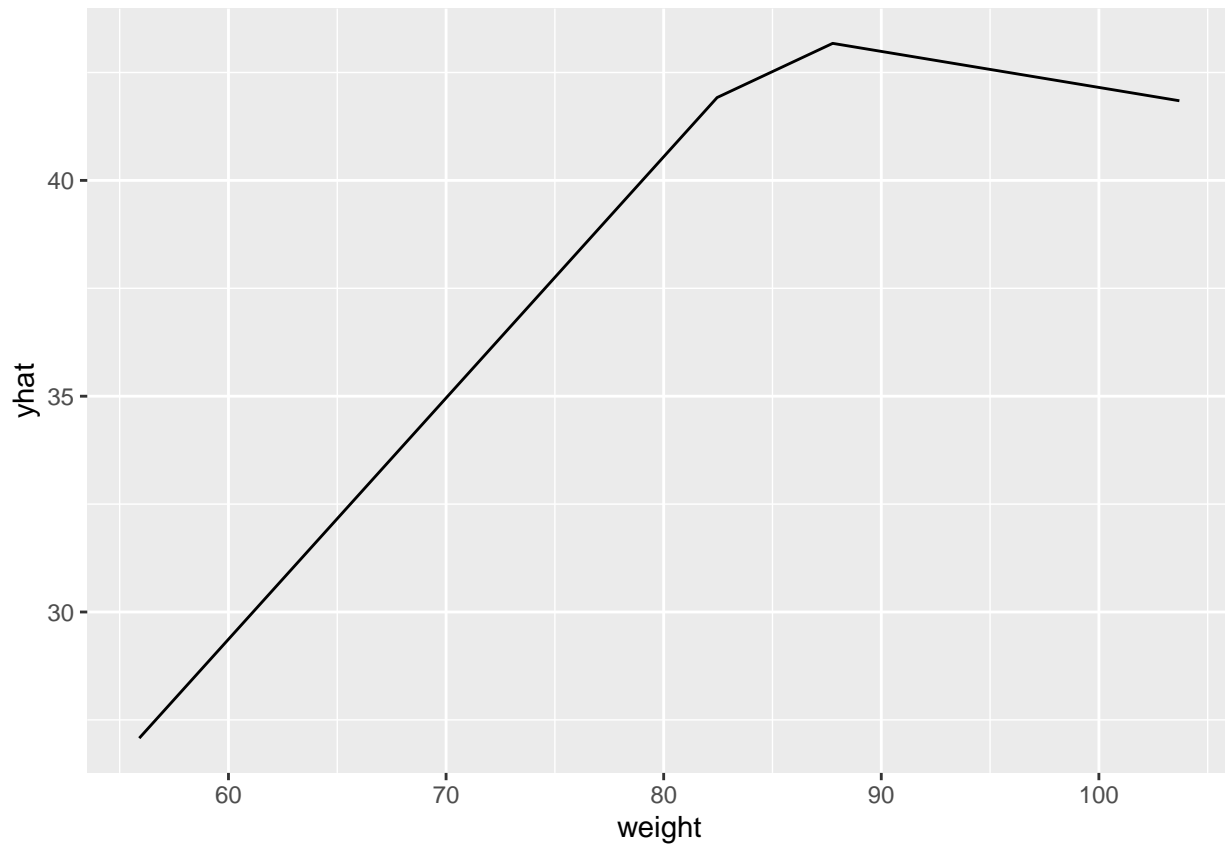
```
## h(bmi-24.5)                7.7118874
## h(30.9-bmi)                6.9728117
## h(bmi-24.5) * severity     1.8498609
## h(bmi-30.9) * studyB       25.7460428
## h(159-height) * h(bmi-30.9) 2.8177334
## h(85.1-weight) * h(bmi-30.9) -2.7210715
## h(weight-85.1) * h(bmi-30.9) -0.4065098
##
## Selected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

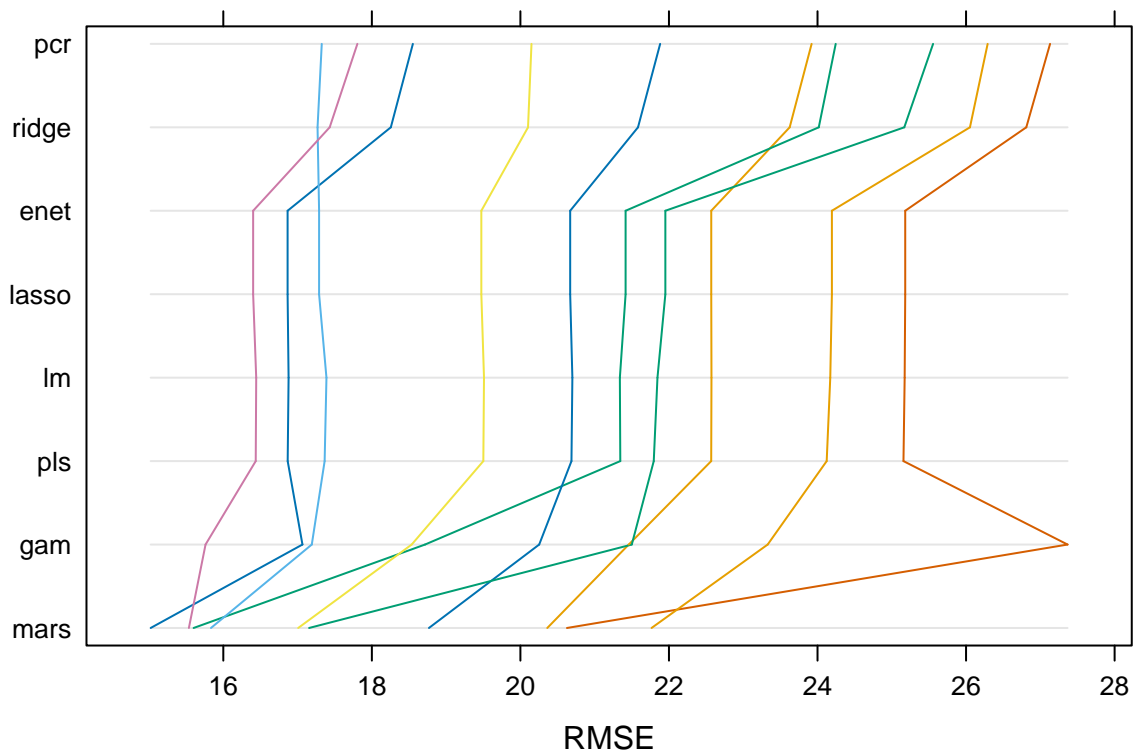
```
# compare models
resamp <- resamples(list(ridge = ridge.fit, lasso = lasso.fit, enet = enet.fit, pcr = pcr.fit, pls = pls.fit))

summary(resamp)

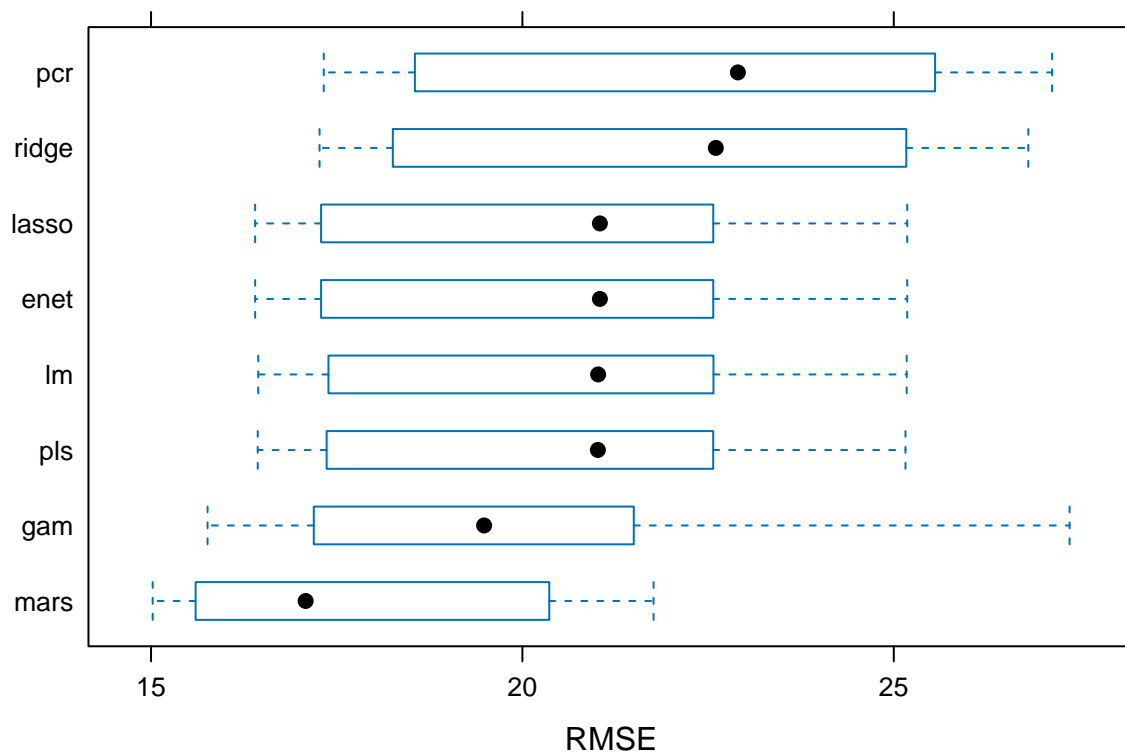
##
## Call:
## summary.resamples(object = resamp)
##
## Models: ridge, lasso, enet, pcr, pls, gam, mars, lm
## Number of resamples: 10
##
## MAE
##           Min.  1st Qu.  Median    Mean  3rd Qu.    Max. NA's
## ridge 11.95419 13.09713 13.82525 13.60576 14.27556 14.43242    0
## lasso 12.42432 12.87440 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