Pearson's product-moment correlation

```
data: Intel and Pfizer
t = 0.5353, df = 62, p-value = 0.5944
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 -0.1810004 0.3084926
sample estimates:
       cor
0.06782663
> x < -Mileage < -c(0,4,8,12,16,20,24,28,32)
> y<-Groove_Depth<-c(394.33,329.50,291.00,255.17,229.33,204.83</pre>
+ ,179.00,163.83,150.33)
> p1<-plot(x,y)
> mod < -lm(y \sim x)
> mod
Call:
lm(formula = v \sim x)
Coefficients:
(Intercept)
    360.637
                  -7.281
> abline(mod)
Error in int_abline(a = a, b = b, h = h, v = v, untf = untf, ...):
  plot.new has not been called yet
> p1<-plot(x,y)
> abline(mod)
> anova(mod)
Analysis of Variance Table
Response: y
          Df Sum Sq Mean Sq F value
                                        Pr(>F)
           1 50887
                      50887 140.71 6.871e-06 ***
Residuals 7 2532
                        362
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
> plot(mod)
Hit <Return> to see next plot:
> par(mfrow=c(2,2))
> #this code let R show the plots in 2*2 format#
> plot(mod)
> summary(mod)
Call:
```

```
lm(formula = y \sim x)
Residuals:
    Min
             10 Median
                             30
                                    Max
-18.099 -11.392 -6.902 7.051 33.693
Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept) 360.6367
                        11.6886
                                  30.85 9.70e-09 ***
                         0.6138 -11.86 6.87e-06 ***
             -7.2806
Χ
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 19.02 on 7 degrees of freedom
Multiple R-squared: 0.9526, Adjusted R-squared: 0.9458
F-statistic: 140.7 on 1 and 7 DF, p-value: 6.871e-06
> X
[1] 0 4 8 12 16 20 24 28 32
> V
[1] 394.33 329.50 291.00 255.17 229.33 204.83 179.00 163.83 150.33
> cor(x,y)
[1] -0.9760173
> p1<-plot(x,y)
> cor.test(x,y)
        Pearson's product-moment correlation
data: x and y
t = -11.862, df = 7, p-value = 6.871e-06
alternative hypothesis: true correlation is not equal to 0
95 percent confidence interval:
 -0.9951127 -0.8865562
sample estimates:
       cor
-0.9760173
> read.csv("~/Desktop/Galton.csv")
    Family Father Mother Gender Height Kids
1
         1
             78.5
                    67.0
                                  73.2
                             М
2
         1
             78.5
                              F
                                  69.2
                                          4
                    67.0
3
         1
             78.5
                   67.0
                              F
                                  69.0
                                          4
4
         1
             78.5
                  67.0
                              F
                                  69.0
                                          4
5
         2
                   66.5
                                  73.5
             75.5
                             М
                                          4
6
         2
             75.5
                    66.5
                             М
                                  72.5
                                          4
7
         2
                              F
                                 65.5
                                          4
             75.5
                   66.5
         2
8
             75.5
                  66.5
                              F
                                  65.5
                                          4
9
         3
             75.0 64.0
                                 71.0
                                          2
                             М
                                          2
10
         3
                             F
            75.0 64.0
                                  68.0
11
         4
             75.0
                    64.0
                             М
                                  70.5
                                          5
```

12 4 75.0 64.0 13 4 75.0 64.0 14 4 75.0 64.0 15 4 75.0 64.0 16 5 75.0 58.5 17 5 75.0 58.5 18 5 75.0 58.5 19 5 75.0 58.5 20 5 75.0 58.5 21 5 75.0 58.5 21 5 75.0 58.5 22 6 74.0 68.0 23 7 74.0 68.0 24 7 74.0 68.0 25 7 74.0 68.0 27 7 74.0 68.0 28 7 74.0 68.0 29 8 74.0 66.5 30 8 74.0 66.5 31 8 74.0 66.5 32 9 74.5 66.0 33 10 74.0<	MFFFMMMFFFFMMMMFFFFFFMM	68.5 67.0 64.5 63.0 72.0 69.0 68.0 66.5 62.5 62.5 74.0 73.0 73.0 70.5 64.0 70.5 68.0 66.0 66.0 65.5 74.0	5555666666166666633311888
34 11 74.0 62.0	М	74.0	8
36 11 74.0 62.0	F	68.0	8
37 11 74.0 62.0	F	67.0	8
38	F F	67.0 66.0	8 8
40 11 74.0 62.0	F	63.5	8
41 11 74.0 62.0	F	63.0	8
42 12 74.0 61.0	F	65.0	1
43 14 73.0 67.0 44 14 73.0 67.0	M M	68.0 67.0	2
45 15 73.0 66.5	M	71.0	2 2 3
46 15 73.0 66.5	М	70.5	3
47 15 73.0 66.5	F	66.7	3
48 16 73.0 65.0 49 16 73.0 65.0	M M	72.0 70.5	9 9
50 16 73.0 65.0	M	70.3 70.2	9
51 16 73.0 65.0	М	70.2	9
52 16 73.0 65.0	M	69.2	9
53 16 73.0 65.0 54 16 73.0 65.0	F F	68.7 66.5	9 9
54 16 73.0 65.0 55 16 73.0 65.0	F	64.5	9
56 16 73.0 65.0	F	63.5	9
57 17 73.0 64.5	M	74.0	6
58 17 73.0 64.5 59 17 73.0 64.5			
	М	73.0	6
59 17 73.0 64.5 60 17 73.0 64.5			

62 63 64 65 66	17 18 18 18 19	73.0 73.0 73.0 73.0 73.2	64.5 64.0 64.0 63.0	F F F F	62.3 66.0 64.5 64.0 62.7	6 3 3 1
67 68	20 20	72.7 72.7	69.0 69.0	M M	73.2 73.0	8 8
69 70	20 20	72.7 72.7	69.0 69.0	M F	72.7 70.0	8 8
71	20	72.7	69.0	F	69.0	8
72 73	20 20	72.7 72.7	69.0 69.0	F F	68.5 68.0	8 8
74	20	72.7	69.0	F	66.0	8
75 76	21 21	72.0 72.0	68.0 68.0	M F	73.0 68.5	3 3 3 3 3 7
77	21	72.0	68.0	F	68.0	3
78 79	22 22	72.0 72.0	67.0 67.0	M M	73.0 71.0	3
80	22	72.0	67.0	F	67.0	3
81	23	72.0	65.0	М	74.2	
82 83	23 23	72.0 72.0	65.0 65.0	M M	70.5 69.5	7 7
84	23	72.0	65.0	F	66.0	7
85 86	23 23	72.0 72.0	65.0 65.0	F F	65.5 65.0	7 7
87	23	72.0	65.0	F	65.0	7
88 89	24 25	72.0 72.0	65 . 5	F F	65.5	1
90	25 25	72.0	64.0 64.0	F	66.0 63.0	2 2
91	26	72.0	63.0	М	70.5	5
92 93	26 26	72.0 72.0	63.0 63.0	M M	70.5 69.0	5 5 5
94	26	72.0	63.0	F	65.0	5 5
95 96	26 27	72.0 72.0	63.0 63.0	F M	63.0 69.0	5 3
97	27	72.0	63.0	M	67.0	_
98 99	27	72.0	63.0 63.0	F	63.0	3 3 6
100	28 28	72.0 72.0	63.0	M M	73.0 67.0	6
101	28	72.0	63.0	F	70.5	6
102 103	28 28	72.0 72.0	63.0 63.0	F F	70.0 66.5	6 6
104	28	72.0	63.0	F	63.0	6
105 106	29 29	72.5 72.5	63.5 63.5	F F	67 . 5 67 . 2	3 3 3
107	29	72.5	63.5	F	66.7	
108 109	30 31	72.0 72.5	62.0 62.0	F M	64.0 71.0	1 6
110	31	72.5	62.0	М	70.0	6
111	31	72.5	62.0	М	70.0	6

112	21	72 F	62.0		66 0	6
112	31	72.5	62.0	F	66.0	6
113	31	72.5	62.0	F	65.0	6
114	31	72.5	62.0	F	65.0	6
115	32	72.0	62.0	М	74.0	5
116	32	72.0	62.0	М	72.0	5
117	32	72.0	62.0	М	69.0	5
118	32	72.0	62.0	F	67.5	5
119	32	72.0	62.0	F	63.5	5
120	33	72.0	62.0	М	72.0	5
121	33		62.0	 М		
		72.0			71.5	5
122	33	72.0	62.0	М	71.5	5
123	33	72.0	62.0	М	70.0	5
124	33	72.0	62.0	F	68.0	5
125	34	72.0	61.0	F	65.7	1
126	35	71.0	69.0	М	78.0	5
127	35	71.0	69.0	М	74.0	5
128	35	71.0	69.0	М	73.0	5
						2
129	35	71.0	69.0	М	72.0	5
130	35	71.0	69.0	F	67.0	5
131	36	71.0	67.0	М	73.2	4
132	36	71.0	67.0	М	73.0	4
133	36	71.0	67.0	М	69.0	4
134	36	71.0	67.0	F	67.0	4
135	37	71.0	66.0	М	70.0	4
136	37	71.0	66.0	F	67.0	4
137	37	71.0	66.0	F	67.0	4
138	37	71.0	66.0	F	66.5	4
139	38	71.0	66.0	М	70.0	6
140	38	71.0	66.0	М	69.0	6
141	38	71.0	66.0	М	68.5	6
142	38	71.0	66.0	F	66.0	6
143	38	71.0	66.0	F	64.5	6
144	38					
		71.0	66.0	F	63.0	6
145	39	71.0	66.0	М	71.0	2
146	39	71.0	66.0	F	67.0	2
147	40	71.0	66.0	М	76.0	5
148	40	71.0	66.0	М	72.0	5
149	40	71.0	66.0	М	71.0	5
150	40	71.0	66.0	М	66.0	5
151	40	71.0	66.0	F	66.0	5
152	41	71.7	65.5	М	70.5	1
153	42	71.0	65.5	М	72.0	6
154	42	71.0	65.5	М	72.0	6
155	42	71.0	65.5	М	71.0	6
156	42	71.0	65.5	M	69.0	6
157	42	71.0	65.5	F	66.0	6
158	42	71.0	65.5	F	65.0	6
159	43	71.5	65.5	M	73.0	2
						2
160	43	71.5	65.5	F	65.2	2
161	44	71.5	65.0	М	68.5	2

162	44	71.5	65.0	М	67.7	2
163 164	45 45	71.0 71.0	65.0 65.0	M M	68.0 68.0	3 3
165	45 45	71.0	65.0	F	62.0	3
166	46	71.0	64.0	F	68.0	8
167	46	71.0	64.0	F	68.0	8
168	46	71.0	64.0	F	67.5	8
169	46	71.0	64.0	F	66.5	8
170	46	71.0	64.0	F	66.5	8
171	46	71.0	64.0	F	66.0	8
172	46	71.0	64.0	F	65.5	8
173	46	71.0	64.0	F	65.0	8
174	47	71.7	64.5	М	72.0	4
175	47	71.7	64.5	М	71.0	4
176	47	71.7	64.5	М	70.5	4
177	47	71.7	64.5	F	67.0	4
178	48	71.0	64.0	М	68.0	3
179	48	71.0	64.0	М	68.0	3
180	48	71.0	64.0	М	68.0	3
181	49	71.5	64.5	М	72.0	7
182	49	71.5	64.5	М	71.0	7
183	49	71.5	64.5	M	70.0	7
184	49	71.5	64.5	F	66.0	7
185	49	71.5	64.5	F	64.5	7
186	49 40	71.5	64.5	F	64.5	7
187 188	49 51	71.5 71.2	64.5	F F	62.0 67.5	7
189	51	71.2	63.0 63.0	F	64.5	2 2
190	52	71.0	63.5	M	71.0	5
191	52	71.0	63.5	M	67.0	5
192	52	71.0	63.5	F	66.0	5
193	52	71.0	63.5	F	65.0	5
194	52	71.0	63.5	F	63.5	5
195	53	71.0	63.0	М	71.0	9
196	53	71.0	63.0	М	70.0	9
197	53	71.0	63.0	М	70.0	9
198	53	71.0	63.0	М	64.0	9
199	53	71.0	63.0	F	65.0	9
200	53	71.0	63.0	F	65.0	9
201	53	71.0	63.0	F	64.0	9
202	53	71.0	63.0	F	63.0	9
203	53	71.0	63.0	F	63.0	9
204	54 54	71.0	63.0	M	71.0	4
205 206	54 54	71.0 71.0	63.0 63.0	M M	71.0 70.0	4 4
200	54	71.0	63.0	F	63.5	4
208	55	71.0	62.0	M	71.0	5
209	55	71.0	62.0	M	70.0	5
210	55	71.0	62.0	F	64.5	5
211	55	71.0	62.0	F	62.5	5

212 213	55 56	71.0 71.0	62.0 62.0	F M	61.5 72.0	5
214	56	71.0	62.0	М	70.5	5
215 216	56 56	71.0 71.0	62.0	M F	70.5 64.5	5 5 5 5
210	56	71.0	62.0 62.0	F	60.0	5
218	57	71.0	62.5	M	70.0	5
219	57	71.0	62.5	F	64.0	5
220	57	71.0	62.5	F	64.0	5
221	57	71.0	62.5	F	64.0	5 5 5
222	57	71.0	62.5	F	62.5	5
223	58	71.0	62.0	М	70.5	7
224	58	71.0	62.0	М	70.0	7
225	58	71.0	62.0	М	69.0	7
226	58	71.0	62.0	М	69.0	7
227	58	71.0	62.0 62.0	M F	66.0	7 7
228 229	58 58	71.0 71.0	62.0	F	64.5 64.0	7
230	59	71.0	61.0	r F	62.0	1
231	60	71.0	58.0	M	71.5	2
232	60	71.0	58.0	M	69.0	2
233	61	70.0	69.0	M	71.0	4
234	61	70.0	69.0	М	70.0	4
235	61	70.0	69.0	М	69.0	4
236	61	70.0	69.0	F	69.0	4
237	62	70.0	69.0	М	70.0	6
238	62	70.0	69.0	М	68.7	6
239	62	70.0	69.0	F	68.0	6
240	62	70.0	69.0	F	66.0	6
241	62	70.0	69.0	F	64.0	6
242	62	70.0	69.0	F	62.0	6
243	63	70.0	68.0	M	75 . 0	1
244 245	64 64	70.0 70.0	67.0 67.0	M M	70.0 69.0	5 5
245	64	70.0	67.0	F	66.0	5
247	64	70.0	67.0	r F	64.0	5
248	64	70.0	67.0	F	60.0	5
249	65	70.0	67.0	F	67.5	1
250	66	70.0	66.5	М	73.0	11
251	66	70.0	66.5	М	72.0	11
252	66	70.0	66.5	М	72.0	11
253	66	70.0	66.5	М	66.5	11
254	66	70.0	66.5	F	69.2	11
255	66	70.0	66.5	F	67.2	11
256	66	70.0	66.5	F	66.5	11
257	66	70.0	66.5	F	66.0	11
258	66	70.0	66.5	F	66.0	11
259 260	66 66	70.0 70.0	66.5	F F	64.2 63.7	11 11
261	67	70.0 70.5	66.5 65.0	Г М	72.0	11 4
201	07	/ U . J	0.5	11	/ Z • V	4

262 263	67 67	70.5 70.5	65.0 65.0	M M	70.2 69.0	4 4
264	67	70.5	65.0	M	68.5	4
265	68	70.5	65.0	F	68.0	5
266	68	70.5	65.0	F	65.0	5
267 268	68 68	70.5 70.5	65.0 65.0	F F	61.5 61.0	5 5
269	68	70.5	65.0	r F	61.0	5
270	69	70.0	65.0	M	73.0	8
271	69	70.0	65.0	M	72.0	8
272	69	70.0	65.0	М	70.5	8
273	69	70.0	65.0	М	65.0	8
274	69	70.0	65.0	М	65.0	8
275	69	70.0	65.0	F	64.5	8
276	69	70.0	65.0	F	63.0	8
277	69	70.0	65.0	F	62.0	8
278	70	70.0	65.0	М	67.0	5
279	70	70.0	65.0	М	65.0	5
280	70	70.0	65.0	F	64.5	5
281	70	70.0	65.0	F	62.5	5
282	70	70.0	65.0	F	62.5	5
283	71	70.0	65.0	М	70.0	6
284	71	70.0	65.0	М	70.0	6
285	71 71	70.0	65.0	F F	67.0	6
286 287	71 71	70.0 70.0	65.0 65.0	F	65.0 65.0	6 6
288	71	70.0	65.0	r F	63.0	6
289	72	70.0	65.0	M	79.0	7
290	72	70.0	65.0	М	75 . 0	7
291	72	70.0	65.0	М	71.0	, 7
292	72	70.0	65.0	F	69.0	7
293	72	70.0	65.0	F	67.0	7
294	72	70.0	65.0	F	65.7	7
295	72	70.0	65.0	F	62.0	7
296	73	70.0	65.0	М	73.0	3
297	73	70.0	65.0	М	72.5	3
298	73	70.0	65.0	F	65.0	3 3 2
299	74	70.0	65.0	М	69.0	2
300	74	70.0	65.0	М	69.0	2
301	75	70.0	64.7	М	72.0	7
302	75 75	70.0	64.7	М	70.0	7
303	75 75	70.0	64.7	М	68.7	7
304	75 75	70.0	64 . 7	F	66.5	7
305	75 75	70.0	64.7	F	65.5	7 7
306 307	75 75	70.0 70.0	64.7 64.7	F F	64.7 64.5	7
308	75 76	70.0	64.0	M	70 . 7	7
309	76	70.0	64.0	М	70.0	7
310	76	70.0	64.0	М	68.0	7
311	76	70.0	64.0	M	67.0	, 7
		-	-			-

312	76	70.0	64.0	М	66.0	7
313	76	70.0	64.0	М	65.0	7
314	76	70.0	64.0	F	67.0	7
315	77	70.0	64.0	M	70.0	4
316	77 77	70.0	64.0	М	68.0	4
317 318	77 77	70.0 70.0	64.0 64.0	M F	66.7 65.5	4 4
319	7 <i>7</i> 78	70.0	64.2	M	72.0	5
320	78	70.0	64.2	M	70.0	5
321	78	70.0	64.2	F	62.5	5
322	78	70.0	64.2	F	61.2	5
323	78	70.0	64.2	F	60.1	5 5 5
324	79	70.5	64.0	М	74.0	8
325	79	70.5	64.0	М	69.5	8
326	79	70.5	64.0	М	69.0	8
327	79	70.5	64.0	М	68.0	8
328	79	70.5	64.0	М	68.0	8
329	79	70.5	64.0	M	68.0	8
330	79	70.5	64.0	F	65.5	8
331	79	70.5	64.0	F	65.0	8
332	80	70.5	64.5	F	60.0	1
333	81	70.0	64.0	M	68.0	4 4
334 335	81 81	70.0 70.0	64.0 64.0	F F	65.0 64.0	4
336	81	70.0	64.0	F	62.0	4
337	82	70.0	64.0	M	71.0	9
338	82	70.0	64.0	M	70.0	9
339	82	70.0	64.0	М	70.0	9
340	82	70.0	64.0	М	70.0	9
341	82	70.0	64.0	М	69.5	9
342	82	70.0	64.0	М	68.5	9
343	82	70.0	64.0	F	69.0	9
344	82	70.0	64.0	F	65.0	9
345	82	70.0	64.0	F	64.0	9
346	83	70.0	63.7	М	70.0	8
347	83	70.0	63.7	M	67.0	8
348	83	70.0	63.7	М	65.5	8
349	83	70.0	63.7 63.7	F	63.7	8 8
350 351	83 83	70.0 70.0	63.7	F F	63.2 62.5	8
352	83	70.0	63.7	F	62.2	8
353	83	70.0	63.7	F	61.0	8
354	85	70.5	63.0	M	72.5	5
355	85	70.5	63.0	М	69.0	5 5 5
356	85	70.5	63.0	М	67.0	5
357	85	70.5	63.0	F	64.5	5
358	85	70.5	63.0	F	64.0	5
359	86	70.0	63.5	М	71.0	4
360	86	70.0	63.5	M	67.5	4
361	86	70.0	63.5	F	67.5	4

362	86	70.0	63.5	F	63.5	4
	87					
363		70.0	63.0	М	68.0	4
364	87	70.0	63.0	M	67.0	4
365	87	70.0	63.0	F	63.7	4
366	87	70.0	63.0	F	62.0	4
367	88	70.0	63.0	М	70.0	4
368	88	70.0	63.0	М	66.5	4
369	88	70.0	63.0	F	62.0	4
370	88	70.0	63.0	F	61.0	4
371	89	70.5	62.0	M	72.0	8
372	89	70.5	62.0	M	70.0	8
373	89	70.5	62.0	М	69.5	8
374	89					
		70.5	62.0	М	69.5	8
375	89	70.5	62.0	M	68.0	8
376	89	70.5	62.0	F	65.0	8
377	89	70.5	62.0	F	64.0	8
378	89	70.5	62.0	F	63.0	8
379	90	70.3	62.7	М	70.7	7
380	90	70.3	62.7	М	69.7	7
381	90	70.3	62.7	М	69.2	7
382	90	70.3	62.7	М	65.2	7
383	90	70.3	62.7	F	64.0	7
384	90	70.3	62.7	F	63.5	7
				F		
385	90	70.3	62.7		63.2	7
386	91	70.5	62.0	М	72.0	3
387	91	70.5	62.0	M	72.0	3 3 2 2
388	91	70.5	62.0	F	60.0	3
389	92	70.0	61.0	М	71.2	2
390	92	70.0	61.0	М	67.0	
391	93	70.0	60.0	М	67.0	4
392	93	70.0	60.0	М	64.5	4
393	93	70.0	60.0	F	65.0	4
394	93	70.0	60.0	F	63.0	4
395	94	70.0	60.0	F.	65.0	2
396	94	70.0	60.0	F	65.0	2
397	95	70.0	58.5	M	71.5	
398					64.5	3 3
	95 05	70.0	58.5	М		2
399	95	70.0	58.5	F	63.0	3
400	96	70.0	58.0	М	72.0	5 5
401	96	70.0	58.0	М	66.0	5
402	96	70.0	58.0	F	66.0	5
403	96	70.0	58.0	F	65.0	5
404	96	70.0	58.0	F	63.0	5
405	97	69.0	68.5	М	75.0	10
406	97	69.0	68.5	М	71.0	10
407	97	69.0	68.5	М	70.0	10
408	97	69.0	68.5	F	66.0	10
409	97	69.0	68.5	F	66.0	10
410	97	69.0	68.5	F	65.5	10
411	97	69.0	68.5	F	65.0	10
411	91	03.0	00.0	ı	00.0	ΤØ

412	97	69.0	68.5	F	65.0	10
413	97	69.0	68.5	F	64.0	10
414	97	69.0	68.5	F	64.0	10
415	98	69.0	67.0	F	64.0	1
416	99	69.0	66.0	М	73.0	8
417	99	69.0	66.0	М	72.0	8
418	99	69.0	66.0	М	71.7	8
419	99	69.0	66.0	М	71.5	8
420	99	69.0		F		8
			66.0		65.5	
421	99	69.0	66.0	F	65.0	8
422	99	69.0	66.0	F	62.7	8
423	99	69.0	66.0	F	62.5	8
424	100	69.0	66.0	М	71.2	3
						3
425	100	69.0	66.0	М	71.0	2
426	100	69.0	66.0	М	70.0	3
427	101	69.0	66.7	М	75.0	6
428	101	69.0	66.7	М	74.0	6
429	101	69.0	66.7	М	72.0	6
430	101	69.0	66.7	М	68.5	6
431	101	69.0	66.7	М	67.0	6
432	101	69.0	66.7	М	66.0	6
433	102	69.0	66.0	М	70.0	6
434	102	69.0	66.0	M	68.5	6
435	102	69.0	66.0	М	68.0	6
436	102	69.0	66.0	F	65.0	6
437	102	69.0	66.0	F	63.0	6
438	102	69.0	66.0	F	62.5	6
439	103	69.0	66.5	М	73.0	5
						5
440	103	69.0	66.5	М	71.0	5
441	103	69.0	66.5	М	70.5	5
442	103	69.0	66.5	M	70.5	5
443	103	69.0	66.5	F	61.0	5
444	104	69.5	66.5	М	70.5	4
445	104	69.5		М		4
			66.5		67.5	
446	104	69.5	66.5	F	64.5	4
447	104	69.5	66.5	F	64.0	4
448	105	69.0	66.5	М	71.0	6
449	105	69.0	66.5	F	68.5	6
450	105	69.0	66.5	F	67.5	6
451	105	69.0	66.5	F	66.0	6
452	105	69.0	66.5	F	63.0	6
453	105	69.0	66.5	F	63.0	6
454	106	69.5	66.0	М	71.0	7
455	106	69.5	66.0	M	71.0	7
456	106	69.5	66.0	М	70.5	7
457	106	69.5	66.0	М	70.5	7
458	106	69.5	66.0	F	66.5	7
459	106	69.5	66.0	F	65.5	7
460	106	69.5	66.0	F	64.5	7
461	107	69.0	66.0	М	73.0	9

462	107	69.0	66.0	М	72.0	9
463	107	69.0	66.0	М	69.0	9
464	107	69.0	66.0	М	69.0	9
465	107	69.0	66.0	F	66.5	9
466	107	69.0	66.0	F	65.5	9
467	107	69.0	66.0	F	65.5	9
468	107	69.0	66.0	F	65.0	9
469	107	69.0	66.0	F	64.0	9
470	108	69.0	65.0	М	70.0	7
471	108	69.0	65.0	М	68.5	7
472	108	69.0	65.0	М	67.0	7
473	108	69.0	65.0	F	65.0	7
474	108	69.0	65.0	F	64.0	7
475	108	69.0	65.0	F	63.5	7
476	108	69.0	65.0	F	61.0	7
477	109	69.5	64.5	М	69.7	7
478	109	69.5	64.5	М	68.0	7
479	109	69.5	64.5	М	60.0	7
480	109	69.5	64.5	F	65.2	7
481	109	69.5	64.5	F	64.5	7
482	109	69.5	64.5	F	63.7	7
483	109	69.5	64.5	F	60.0	7
484	110	69.2	64.0	М	71.7	4
485	110	69.2	64.0	М	66.5	4
486	110	69.2	64.0	F	65.0	4
487	110	69.2	64.0	F	63.5	4
488	112	69.0	63.0	М	69.0	3
489	112	69.0	63.0	F	67.5	3
490	112	69.0	63.0	F	63.5	3
491	113	69.0	63.0	М	72.0	1
492	114	69.0	63.0	М	73.0	6
493	114	69.0	63.0	М	70.0	6
494	114	69.0	63.0	М	70.0	6
495	114	69.0	63.0	 М	64.0	6
496	114	69.0	63.0	F	66.0	6
497	114	69.0	63.0	F	62.0	6
498	115	69.0	63.5	М	70.5	7
499	115	69.0	63.5	M	67.0	7
500	115	69.0	63.5	М	66.0	7
501	115	69.0	63.5	F	65.0	7
502	115	69.0	63.5	F	63.0	7
		69.0	63.5			
503	115			F	62.0	7
504	115	69.0	63.5	F	61.0	7
505	116	69.0	63.5	М	70.5	3
506	116	69.0	63.5	F	63.7	3 3 3
						2
507	116	69.0	63.5	F	63.0	3
508	117	69.7	62.0	F	62.5	1
509	118	69.5	62.0	М	73.0	3
510	118	69.5	62.0	М	72.0	3
		69.5		М		3
511	118	09.3	62.0	ויו	69.0	3

512	119	69.0	62.0	М	73.0	5
	119					5
513		69.0	62.0	M	71.0	5 5 5
514	119	69.0	62.0	М	71.0	5
515	119	69.0	62.0	М	69.0	5
516	119	69.0	62.0	F	63.0	5
517	121	69.0	62.5	М	71.0	8
518	121	69.0	62.5	М	70.0	8
519	121	69.0	62.5	М	70.0	8
520	121	69.0	62.5	М	69.0	8
521	121	69.0	62.5	F	63.5	8
522	121	69.0	62.5	F	62.5	8
523	121	69.0	62.5	F	62.5	8
				F		
524	121	69.0	62.5		62.0	8
525	122	69.0	62.0	М	72.0	4
526	122	69.0	62.0	М	68.0	4
527	122	69.0	62.0	F	66.0	4
528	122	69.0	62.0	F	66.0	4
529	123	69.5	61.0	М	70.0	5
530	123	69.5	61.0	М	69.5	5
531	123	69.5	61.0	М	69.0	5 5
532	123	69.5	61.0	F	63.0	5
533	123	69.5	61.0	F	62.0	5
534	124	69.0	61.0	М	68.0	9
535			61.0	M	68.0	9
	124	69.0				
536	124	69.0	61.0	M	67.5	9
537	124	69.0	61.0	М	64.0	9
538	124	69.0	61.0	М	63.0	9
539	124	69.0	61.0	М	63.0	9
540	124	69.0	61.0	F	63.5	9
541	124	69.0	61.0	F	62.0	9
542	124	69.0	61.0	F	62.0	9
543	125	69.0	60.0	М	70.5	3
544	125	69.0	60.0	F	68.0	3 3
545	125	69.0	60.0	F	62.5	3
546	126	69.0	60.0	М	69.0	4
547	126	69.0	60.0	 М	66.0	4
548	126	69.0	60.0	F	61.7	4
549	126	69.0	60.0	F	60.5	4
550	127	69.0	60.5	М	69.5	1
551	128	68.7	70.5	M	71.0	2
552	128	68.7	70.5	F	61.7	2
553	129	68.5	67.0	М	73.0	3
554	129	68.5	67.0	М	71.0	3
555	129	68.5	67.0	F	67.0	3
556	130	68.5	66.5	М	70.0	11
557	130	68.5	66.5	М	69.0	11
558	130	68.5	66.5	М	69.0	11
559	130	68.5	66.5	M	68.7	11
560	130	68.5	66.5	 М	68.5	11
561	130	68.5	66.5	M	68.5	11
OOT	120	00.0	00.5	rı	00.0	11

562	130	68.5	66.5	М	68.0	11
563	130	68.5	66.5	М	68.0	11
564	130	68.5	66.5	М	68.0	11
565	130	68.5	66.5	F	63.2	11
566	131	68.0	65.0	М	67.5	2
567	131	68.0	65.0	М	66.0	2
568	132	68.0	65.5	М	66.0	2
569	132	68.0	65.5	F	64.0	2
570	133	68.0	65.5	М	71.7	7
571	133	68.0	65.5	М	71.5	7
572	133	68.0	65.5	М	70.7	7
573	133	68.0	65.5	М	65.5	7
574	133	68.0	65.5	F	66.5	7
575	133	68.0	65.5	F	65.2	7
576	133	68.0	65.5	F	61.5	7
577	134	68.0	65.0	М	72.0	4
578	134	68.0	65.0	М	72.0	4
579	134	68.0	65.0	F	68.0	4
580	134	68.0	65.0	F	66.0	4
581	135	68.5	65.0	М	69.2	8
582	135	68.5	65.0	М	68.0	8
583	135	68.5	65.0	М	66.0	8
584	135	68.5	65.0	М	66.0	8
585	135	68.5	65.0	F	62.0	8
586	135	68.5	65.0	F	61.5	8
587	135	68.5	65.0	F	61.0	8
588	135	68.5	65.0	F	60.0	8
589	136	68.0	64.0	М	71.0	10
590	136	68.0	64.0	М	68.0	10
591	136	68.0	64.0	М	68.0	10
592	136	68.0	64.0	М	67.0	10
593	136	68.0	64.0	F	65.0	10
594	136	68.0	64.0	F	64.0	10
595	136	68.0	64.0	F	63.0	10
596	136	68.0	64.0	F	63.0	10
597	136	68.0	64.0	F	62.0	10
598	136	68.0	64.0	F	61.0	10
599	137	68.0	64.0	М	66.0	4
600	137	68.0	64.0	М	63.0	4
601	137	68.0	64.0	F	65.5	4
602	137	68.0	64.0	F	62.0	4
603	138	68.0	64.0	М	71.2	
604	138	68.0	64.0	М	71.2	5 5 5 5 5
605	138	68.0	64.0	М	69.0	5
606	138	68.0	64.0	М	68.5	5
607	138	68.0	64.0	F	62.5	5
608	139	68.0	64.5	F.	62.0	1
609	140	68.0	64.0	М	69.0	10
610	140	68.0	64.0	M	67.0	10
611	140	68.0	64.0	M	66.0	10

612	140	68.0	64.0	F	66.0	10
613	140	68.0	64.0	F	66.0	10
614	140	68.0	64.0	F	65.0	10
615	140	68.0	64.0	F	65.0	10
616	140	68.0	64.0	F	65.0	10
617	140	68.0	64.0	F	64.0	10
618	140	68.0	64.0	F	63.0	10
619	141	68.0	63.0	М	70.5	8
620	141	68.0	63.0	М	70.0	8
621	141	68.0	63.0	М	68.0	8
622	141	68.0	63.0	М	66.0	8
623	141	68.0	63.0	М	66.0	8
624	141	68.0	63.0	F	66.0	8
625	141	68.0	63.0	F	62.0	8
626	141	68.0	63.0	F	61.5	8
627	142	68.5	63.5	М	73.5	4
628	142	68.5	63.5	М	70.0	4
629	142	68.5	63.5	М	69.5	4
630	142	68.5	63.5	F	65.5	4
631	143	68.0	63.0	М	67.0	1
632	144	68.0	63.0	М	70.0	4
633	144	68.0	63.0	М	68.0	4
634	144	68.0	63.0	F	64.5	4
635	144	68.0	63.0	F	64.0	4
636	145	68.0	63.0	М	71.0	8
637	145	68.0	63.0	М	68.0	8
638	145	68.0	63.0	М	66.0	8
639	145	68.0	63.0	М	65.5	8
640	145	68.0	63.0	М	65.0	8
641	145	68.0	63.0	F	63.0	8
642	145	68.0	63.0	F	62.0	8
643	145	68.0	63.0	F	62.0	8
644	146	68.0	63.0	М	67.0	6
645	146	68.0	63.0	М	67.0	6
646	146	68.0	63.0	М	66.0	6
647	146	68.0	63.0	F	64.0	6
648	146	68.0	63.0	F	63.5	6
649	146	68.0	63.0	F	61.0	6
650	147	68.5	63.5	М	68.2	1
651	148	68.0	63.0	М	70.0	1
652	149	68.2	63.5	М	70.0	5
653	149	68.2	63.5	М	69.0	5
654	149	68.2	63.5	М	67.0	5
655	149	68.2	63.5	М	65.5	5
656	149	68.2	63.5	F	64.5	5
657	150	68.0	62.5	М	68.5	1
658	151	68.7	62.0	М	67.7	2
659	151	68.7	62.0	F	61.7	2
660	152	68.0	62.5	М	66.5	1
661	153	68.0	61.0	М	68.5	5

662	153	68.0	61.0	М	68.0	5
663	153	68.0	61.0	М	64.0	5
664	153	68.0	61.0	F	63.5	5
665	153	68.0	61.0	F	63.0	5
666	154			М	66.7	1
		68.0	60.2			
667	155	68.0	60.0	М	64.0	7
668	155	68.0	60.0	F	61.0	7
669	155	68.0	60.0	F	61.0	7
670	155	68.0	60.0	F	60.0	7
671	155	68.0	60.0	F	60.0	7
672	155	68.0	60.0	F	60.0	7
673	155	68.0	60.0	F	56.0	7
674	156	68.0	60.0	М	67.5	4
675	156	68.0	60.0	М	67.0	4
676	156	68.0	60.0	М	66.5	4
677	156	68.0	60.0	F	60.0	4
678	157	68.5	59.0	М	69.0	1
679	158	68.0	59.0	М	68.0	10
680	158	68.0	59.0	М	65.0	10
681	158	68.0	59.0	M	64.7	10
682	158	68.0	59.0	М	64.0	10
683	158	68.0	59.0	М	64.0	10
684	158	68.0	59.0	М	63.0	10
685	158	68.0	59.0	F	65.0	10
686	158	68.0	59.0	F	65.0	10
687	158	68.0	59.0	F	62.0	10
688	158	68.0	59.0	F	61.0	10
689	159	67.0	66.2	М	72.7	5
690	159	67.0	66.2	M	72.7	5
						5
691	159	67.0	66.2	М	71.5	5
692	159	67.0	66.2	F	65.5	5
693	159	67.0	66.2	F	63.5	5
694	160	67.0	66.5	М	71.0	1
						6
695	162	67.0	65.0	М	69.7	
696	162	67.0	65.0	М	67.5	6
697	162	67.0	65.0	F	65.5	6
698	162	67.0	65.0	F	65.0	6
699	162	67.0	65.0	F	64.5	6
700	162	67.0	65.0	F	63.5	6
701	163	67.0	65.5	М	70.0	5
702	163	67.0	65.5	М	69.0	5
703	163	67.0	65.5	F	65.5	5
						5
704	163	67.0	65.5	F	65.5	5
705	163	67.0	65.5	F	63.0	5
706	164	67.0	65.5	М	70.0	4
707	164	67.0	65.5	М	67.7	4
708	164	67 . 0	65.5	F	63.0	4
709	164	67.0	65.5	F	60.0	4
710	165	67.0	65.0	М	65.0	3
711	165	67.0	65.0	F	62.0	3
		-	-		-	_

712 713 714	165 166 166	67.0 67.5 67.5	65.0 65.0 65.0	F M M	62.0 71.0 69.0	3 11 11
715	166	67.5	65.0	F	64.0	11
716 717	166 166	67.5 67.5	65.0 65.0	F F	64.0 63.0	11 11
717	166	67 . 5	65.0	r F	63.0	11
719	166	67.5	65.0	F	63.0	11
720	166	67.5	65.0	F	63.0	11
721	166	67.5	65.0	F	63.0	11
722 723	166 166	67.5 67.5	65.0 65.0	F F	62.5 62.0	11 11
724	167	67 . 0	64.0	М	71.5	4
725	167	67.0	64.0	M	70.0	4
726	167	67.0	64.0	М	67.0	4
727	167	67.0	64.0	М	67 . 0	4
728 729	168 168	67.0 67.0	63.5 63.5	M M	71.0 70.2	8 8
730	168	67.0	63.5	M	69.2	8
731	168	67.0	63.5	М	68.5	8
732	168	67.0	63.5	М	68.0	8
733	168	67.0	63.5	М	67.0	8
734	168	67.0	63.5	М	65.5	8
735 736	168 169	67.0 67.0	63.5 63.0	F M	63.5 69.0	8 3
737	169	67.0	63.0	M	68.0	3
738	169	67.0	63.0	F	63.0	3
739	170	67.5	62.0	M	70.0	5 5
740	170	67.5	62.0	М	69.5	5
741	170 170	67.5	62.0	М	69.0	5
742 743	170 170	67.5 67.5	62.0 62.0	M F	68.5 66.0	5 5
744	171	67.0	61.0	M	67.0	1
745	172	66.0	67.0	М	70.5	8
746	172	66.0	67.0	М	70.5	8
747	172	66.0	67.0	М	67.0	8
748	172	66.0	67.0	М	66.0	8
749 750	172 172	66.0 66.0	67.0 67.0	M F	66.0 62.0	8 8
751	172	66.0	67.0	F	62.0	8
752	172	66.0	67.0	F	61.5	8
753	173	66.0	67.0	М	72.0	9
754	173	66.0	67.0	M	65.0	9
755 756	173 173	66.0 66.0	67.0 67.0	M F	65.0 67.0	9 9
757	173	66.0	67.0	r F	64.0	9
758	173	66.0	67.0	F	64.0	9
759	173	66.0	67.0	F	62.0	9
760	173	66.0	67.0	F	60.0	9
761	173	66.0	67.0	F	60.0	9

762 763 764	174 174 174	66.0 66.0 66.0	66.0 66.0	M M F	66.0 65.0 67.0	5 5 5
765 766	174 174	66.0 66.0	66.0 66.0	F F	66.5 65.5	5 5
767	175	66.0	66.0	М	72.0	6
768	175	66.0	66.0	М	68.0	6
769	175	66.0	66.0	F	66.0	6
770	175	66.0	66.0	F	65.0	6
771	175	66.0	66.0	F	62.0	6
772 773	175 176	66.0 66.5	66.0 65.0	F M	61.0 68.7	6 8
773 774	176	66.5	65.0	M	68.5	8
775	176	66.5	65.0	М	66.5	8
776	176	66.5	65.0	М	64.5	8
777	176	66.5	65.0	F	62.5	8
778	176	66.5	65.0	F	60.5	8
779	176	66.5	65.0	F	60.5	8
780 701	176	66.5	65.0	F	57 . 5	8
781 782	177 177	66.0 66.0	65.5 65.5	M M	72.0 71.0	5 5
782 783	177	66.0	65.5	M	67.0	5
784	177	66.0	65.5	F.	66.0	5
785	177	66.0	65.5	F	65.0	5
786	178	66.0	63.0	М	70.0	1
787	179	66.0	63.5	F	64.5	2
788	179	66.0	63.5	F	62.0	2
789	180	66.5	63.0	M	67.2	6
790 701	180	66.5	63.0	M	67.0	6
791 792	180 180	66.5 66.5	63.0 63.0	M F	65.0 65.0	6 6
792 793	180	66.5	63.0	F	65.0	6
794	180	66.5	63.0	F	63.0	6
795	181	66.5	62.5	M	70.0	7
796	181	66.5	62.5	М	68.0	7
797	181	66.5	62.5	F	63.5	7
798	181	66.5	62.5	F	62.5	7
799	181	66.5	62.5	F	62.5	7
800	181	66.5	62 . 5	F	62.5	7
801 802	181 182	66.5 66.0	62.5 61.5	F M	62 . 5 70 . 0	7 1
803	183	66.0	60.0	M	68.0	4
804	183	66.0	60.0	M	67.0	4
805	183	66.0	60.0	М	65.0	4
806	183	66.0	60.0	F	60.0	4
807	184	66.0	60.0	М	65.0	1
808	185	66.0	59.0	M	68.0	15
809	185	66.0	59.0	M	67.0	15
810 811	185 185	66.0 66.0	59.0 59.0	M M	66.5 66.0	15 15
011	102	00.0	שופכ	1*1	00.0	13

812	185	66.0	59.0	М	65.7	15
813	185	66.0	59.0	М	65.5	15
814	185	66.0	59.0	М	65.0	15
815	185	66.0	59.0	F	65.0	15
816	185	66.0	59.0	F	64.0	15
817	185	66.0	59.0	F	63.0	15
818	185	66.0	59.0	F	62.0	15
819	185	66.0	59.0	F	61.0	15
820	185	66.0	59.0	F	60.0	15
821	185	66.0	59.0	F	58.0	15
822	185	66.0	59.0	F	57.0	15
823	186	65.0	67.0	М	66.5	4
824	186	65.0	67.0	М	66.0	4
825	186	65.0	67.0	М	66.0	4
826	186	65.0	67.0	F	65.0	4
827	187	65.0	67.0	F	63.0	1
828	188	65.0	66.0	М	63.0	4
829	188	65.0	66.0	F	63.0	4
830	188	65.0	66.0	F	63.0	4
831	188	65.0	66.0	F	60.0	4
832	190	65.0	65.0	М	69.0	9
833	190	65.0	65.0	М	68.0	9
834	190	65.0	65.0	М	68.0	9
835	190	65.0	65.0	F	65.0	9
836	190	65.0	65.0	F	65.0	9
837	190	65.0	65.0	F	62.0	9
838	190	65.0	65.0	F	62.0	9
839	190	65.0	65.0	F	61.0	9
840	190	65.0	65.0	F	59.0	9
841	191	65.0	65.5	М	70.7	2
842	191	65.0	65.5	F	65.5	2
843	192	65.0	65.0	М	69.2	6
844	192	65.0	65.0	М	69.0	6
845	192	65.0	65.0	М	68.0	6
846	192	65.0	65.0	М	67.7	6
847	192	65.0	65.0	F	64.5	6
848	192	65.0	65.0	F	60.5	6
849	193	65.0	64.0	M	67.0	6
850	193	65.0	64.0	М	67.0	6
851	193	65.0	64.0	F	64.0	6
852	193	65.0	64.0	F	64.0	6
853	193	65.0	64.0	F	62.5	6
854	193	65.0	64.0	F	60.5	6
855	194	65.0	63.0	M	70.0	
856	194	65.0	63.0	F	63.0	2
857	195	65.0	63.0	M	66.0	3
858	195	65.0	63.0	M	66.0	3
859	195	65.0	63.0	F	63.0	2 2 3 3 3
860	196	65.5	63.0	M	71.0	4
861	196	65.5	63.0	M	71.0	4
301	100	33.3		••	, 110	•

862	196	65.5	63.0	M	69.0	4
863	196	65.5	63.0	F	63.5	4
864	197	65.5	60.0	M	68.0	5
865	197			М	68.0	5
		65.5	60.0			
866	197	65.5	60.0	М	67.0	5
867	197	65.5	60.0	М	67.0	5
868	197	65.5	60.0	F	62.0	5
869	198	64.0	64.0	М	71.5	7
870	198	64.0	64.0	М	68.0	7
871	198	64.0	64.0	F	65.5	7
872	198	64.0	64.0	F	64.0	7
873	198	64.0	64.0	F	62.0	7
874	198	64.0	64.0	F	62.0	7
875	198	64.0	64.0	F	61.0	7
876	199	64.0	64.0	М	70.5	7
877	199	64.0	64.0	М	68.0	7
878	199	64.0	64.0	F	67.0	7
879	199	64.0	64.0	F	65.0	7
						7
880	199	64.0	64.0	F	64.0	
881	199	64.0	64.0	F	64.0	7
882	199	64.0	64.0	F	60.0	7
883	200	64.0	63.0	М	64.5	1
884	201	64.0	60.0	М	66.0	2
885	201	64.0	60.0	F	60.0	2
886	203	62.0	66.0	М	64.0	3
887	203	62.0	66.0	F	62.0	3 3
						2
888	203	62.0	66.0	F	61.0	3
889	204	62.5	63.0	М	66.5	2
890	204	62.5	63.0	F	57.0	2
891	136A	68.5	65.0	М	72.0	8
892	136A	68.5	65.0	М	70.5	8
893	136A	68.5	65.0	М	68.7	8
894	136A	68.5	65.0	М	68.5	8
895	136A	68.5	65.0	M	67.7	8
896	136A	68.5	65.0	F	64.0	8
897	136A	68.5	65.0	F	63.5	8
898	136A	68.5	65.0	F	63.0	8
> re	ad.csv('	'~/Desk	top/Ga	lton.cs\	/")	
	Family I	Father I	Mother	Gender	Height	Kids
1	1	78.5	67.0	М	73.2	4
	1	78.5	67.0	F	69.2	4
2 3	1	78.5	67.0	F	69.0	4
4	1	78 . 5		F		4
4			67.0		69.0	
5	2	75.5	66.5	М	73.5	4
6 7	2	75.5	66.5	М	72.5	4
	2	75.5	66.5	F	65.5	4
8	2 2 2 2 3	75.5	66.5	F	65.5	4
9	3	75.0	64.0	М	71.0	2
10	3	75.0	64.0	F	68.0	2
11	4	75 . 0	64.0	М	70.5	5
	7	, 510	0 110		, 013	,

12 4 75.0 64.0 13 4 75.0 64.0 14 4 75.0 64.0 15 4 75.0 64.0 16 5 75.0 58.5 17 5 75.0 58.5 18 5 75.0 58.5 19 5 75.0 58.5 20 5 75.0 58.5 21 5 75.0 58.5 21 5 75.0 58.5 22 6 74.0 68.0 23 7 74.0 68.0 24 7 74.0 68.0 25 7 74.0 68.0 27 7 74.0 68.0 28 7 74.0 68.0 29 8 74.0 66.5 30 8 74.0 66.5 31 8 74.0 66.5 32 9 74.5 66.0 33 10 74.0<	MFFFMMMFFFFMMMMFFFFFFMM	68.5 67.0 64.5 63.0 72.0 69.0 68.0 66.5 62.5 62.5 74.0 73.0 73.0 70.5 64.0 70.5 68.0 66.0 66.0 65.5 74.0	5555666666166666633311888
34 11 74.0 62.0	М	74.0	8
36 11 74.0 62.0	F	68.0	8
37 11 74.0 62.0	F	67.0	8
38	F F	67.0 66.0	8 8
40 11 74.0 62.0	F	63.5	8
41 11 74.0 62.0	F	63.0	8
42 12 74.0 61.0	F	65.0	1
43 14 73.0 67.0 44 14 73.0 67.0	M M	68.0 67.0	2
45 15 73.0 66.5	M	71.0	2 2 3
46 15 73.0 66.5	М	70.5	3
47 15 73.0 66.5	F	66.7	3
48 16 73.0 65.0 49 16 73.0 65.0	M M	72.0 70.5	9 9
50 16 73.0 65.0	M	70.3 70.2	9
51 16 73.0 65.0	М	70.2	9
52 16 73.0 65.0	M	69.2	9
53 16 73.0 65.0 54 16 73.0 65.0	F F	68.7 66.5	9 9
54 16 73.0 65.0 55 16 73.0 65.0	F	64.5	9
56 16 73.0 65.0	F	63.5	9
57 17 73.0 64.5	M	74.0	6
58 17 73.0 64.5 59 17 73.0 64.5			
	М	73.0	6
59 17 73.0 64.5 60 17 73.0 64.5			

62 63 64 65 66	17 18 18 18 19	73.0 73.0 73.0 73.0 73.2	64.5 64.0 64.0 63.0	F F F F	62.3 66.0 64.5 64.0 62.7	6 3 3 1
67 68	20 20	72.7 72.7	69.0 69.0	M M	73.2 73.0	8 8
69 70	20 20	72.7 72.7	69.0 69.0	M F	72.7 70.0	8 8
71	20	72.7	69.0	F	69.0	8
72 73	20 20	72.7 72.7	69.0 69.0	F F	68.5 68.0	8 8
74	20	72.7	69.0	F	66.0	8
75 76	21 21	72.0 72.0	68.0 68.0	M F	73.0 68.5	3 3 3 3 3 7
77	21	72.0	68.0	F	68.0	3
78 79	22 22	72.0 72.0	67.0 67.0	M M	73.0 71.0	3
80	22	72.0	67.0	F	67.0	3
81	23	72.0	65.0	М	74.2	
82 83	23 23	72.0 72.0	65.0 65.0	M M	70.5 69.5	7 7
84	23	72.0	65.0	F	66.0	7
85 86	23 23	72.0 72.0	65.0 65.0	F F	65.5 65.0	7 7
87	23	72.0	65.0	F	65.0	7
88 89	24 25	72.0 72.0	65 . 5	F F	65.5	1
90	25 25	72.0	64.0 64.0	F	66.0 63.0	2 2
91	26	72.0	63.0	М	70.5	5
92 93	26 26	72.0 72.0	63.0 63.0	M M	70.5 69.0	5 5 5
94	26	72.0	63.0	F	65.0	5 5
95 96	26 27	72.0 72.0	63.0 63.0	F M	63.0 69.0	5 3
97	27	72.0	63.0	M	67.0	_
98 99	27	72.0	63.0 63.0	F	63.0	3 3 6
100	28 28	72.0 72.0	63.0	M M	73.0 67.0	6
101	28	72.0	63.0	F	70.5	6
102 103	28 28	72.0 72.0	63.0 63.0	F F	70.0 66.5	6 6
104	28	72.0	63.0	F	63.0	6
105 106	29 29	72.5 72.5	63.5 63.5	F F	67 . 5 67 . 2	3 3 3
107	29	72.5	63.5	F	66.7	
108 109	30 31	72.0 72.5	62.0 62.0	F M	64.0 71.0	1 6
110	31	72.5	62.0	М	70.0	6
111	31	72.5	62.0	М	70.0	6

112	21	72 F	62.0	_	66 0	6
112	31	72.5	62.0	F	66.0	6
113	31	72.5	62.0	F	65.0	6
114	31	72.5	62.0	F	65.0	6
115	32	72.0	62.0	М	74.0	5
116	32	72.0	62.0	М	72.0	5
117	32	72.0	62.0	М	69.0	5
118	32	72.0	62.0	F	67.5	5
119	32	72.0	62.0	F	63.5	5
120	33	72.0	62.0	М	72.0	5
121	33		62.0	 М		
		72.0			71.5	5
122	33	72.0	62.0	М	71.5	5
123	33	72.0	62.0	М	70.0	5
124	33	72.0	62.0	F	68.0	5
125	34	72.0	61.0	F	65.7	1
126	35	71.0	69.0	М	78.0	5
127	35	71.0	69.0	М	74.0	5
128	35	71.0	69.0	М	73.0	5
						2
129	35	71.0	69.0	М	72.0	5
130	35	71.0	69.0	F	67.0	5
131	36	71.0	67.0	М	73.2	4
132	36	71.0	67.0	М	73.0	4
133	36	71.0	67.0	М	69.0	4
134	36	71.0	67.0	F	67.0	4
135	37	71.0	66.0	М	70.0	4
136	37	71.0	66.0	F	67.0	4
137	37	71.0	66.0	F	67.0	4
138	37	71.0	66.0	F	66.5	4
139	38	71.0	66.0	М	70.0	6
140	38	71.0	66.0	М	69.0	6
141	38	71.0	66.0	М	68.5	6
142	38	71.0	66.0	F	66.0	6
143	38	71.0	66.0	F	64.5	6
144	38					
		71.0	66.0	F	63.0	6
145	39	71.0	66.0	М	71.0	2
146	39	71.0	66.0	F	67.0	2
147	40	71.0	66.0	М	76.0	5
148	40	71.0	66.0	М	72.0	5
149	40	71.0	66.0	М	71.0	5
150	40	71.0	66.0	М	66.0	5
151	40	71.0	66.0	F	66.0	5
152	41	71.7	65.5	М	70.5	1
153	42	71.0	65.5	М	72.0	6
154	42	71.0	65.5	М	72.0	6
155	42	71.0	65.5	М	71.0	6
156	42	71.0	65.5	M	69.0	6
157	42	71.0	65.5	F	66.0	6
158	42	71.0	65.5	F	65.0	6
159	43	71.5	65.5	M	73.0	2
						2
160	43	71.5	65.5	F	65.2	2
161	44	71.5	65.0	М	68.5	2

162	44	71.5	65.0	М	67.7	2
163 164	45 45	71.0 71.0	65.0 65.0	M M	68.0 68.0	3 3
165	45 45	71.0	65.0	F	62.0	3
166	46	71.0	64.0	F	68.0	8
167	46	71.0	64.0	F	68.0	8
168	46	71.0	64.0	F	67.5	8
169	46	71.0	64.0	F	66.5	8
170	46	71.0	64.0	F	66.5	8
171	46	71.0	64.0	F	66.0	8
172	46	71.0	64.0	F	65.5	8
173	46	71.0	64.0	F	65.0	8
174	47	71.7	64.5	М	72.0	4
175	47	71.7	64.5	M	71.0	4
176	47	71.7	64.5	М	70.5	4
177	47	71.7	64.5	F	67.0	4
178	48	71.0	64.0	М	68.0	3
179	48	71.0	64.0	М	68.0	3
180	48	71.0	64.0	М	68.0	3
181	49	71.5	64.5	М	72.0	7
182	49	71.5	64.5	М	71.0	7
183	49	71.5	64.5	M	70.0	7
184	49	71.5	64.5	F	66.0	7
185	49	71.5	64.5	F	64.5	7
186	49 40	71.5	64.5	F	64.5	7
187 188	49 51	71.5 71.2	64.5	F F	62.0 67.5	7
189	51	71.2	63.0 63.0	F	64.5	2 2
190	52	71.0	63.5	M	71.0	5
191	52	71.0	63.5	M	67.0	5
192	52	71.0	63.5	F	66.0	5
193	52	71.0	63.5	F	65.0	5
194	52	71.0	63.5	F	63.5	5
195	53	71.0	63.0	М	71.0	9
196	53	71.0	63.0	М	70.0	9
197	53	71.0	63.0	М	70.0	9
198	53	71.0	63.0	М	64.0	9
199	53	71.0	63.0	F	65.0	9
200	53	71.0	63.0	F	65.0	9
201	53	71.0	63.0	F	64.0	9
202	53	71.0	63.0	F	63.0	9
203	53	71.0	63.0	F	63.0	9
204	54 54	71.0	63.0	M	71.0	4
205 206	54 54	71.0 71.0	63.0 63.0	M M	71.0 70.0	4 4
200	54	71.0	63.0	F	63.5	4
208	55	71.0	62.0	M	71.0	5
209	55	71.0	62.0	M	70.0	5
210	55	71.0	62.0	F	64.5	5
211	55	71.0	62.0	F	62.5	5

212 213	55 56	71.0 71.0	62.0 62.0	F M	61.5 72.0	5
214	56	71.0	62.0	М	70.5	5
215 216	56 56	71.0 71.0	62.0	M F	70.5 64.5	5 5 5 5
210	56	71.0	62.0 62.0	F	60.0	5
218	57	71.0	62.5	M	70.0	5
219	57	71.0	62.5	F	64.0	5
220	57	71.0	62.5	F	64.0	5
221	57	71.0	62.5	F	64.0	5 5 5
222	57	71.0	62.5	F	62.5	5
223	58	71.0	62.0	М	70.5	7
224	58	71.0	62.0	М	70.0	7
225	58	71.0	62.0	М	69.0	7
226	58	71.0	62.0	М	69.0	7
227	58	71.0	62.0 62.0	M F	66.0	7 7
228 229	58 58	71.0 71.0	62.0	F	64.5 64.0	7
230	59	71.0	61.0	r F	62.0	1
231	60	71.0	58.0	M	71.5	2
232	60	71.0	58.0	М	69.0	2
233	61	70.0	69.0	M	71.0	4
234	61	70.0	69.0	М	70.0	4
235	61	70.0	69.0	М	69.0	4
236	61	70.0	69.0	F	69.0	4
237	62	70.0	69.0	М	70.0	6
238	62	70.0	69.0	М	68.7	6
239	62	70.0	69.0	F	68.0	6
240	62	70.0	69.0	F	66.0	6
241	62	70.0	69.0	F	64.0	6
242	62	70.0	69.0	F	62.0	6
243	63	70.0	68.0	M	75 . 0	1
244 245	64 64	70.0 70.0	67.0 67.0	M M	70.0 69.0	5 5
245	64	70.0	67.0	F	66.0	5
247	64	70.0	67.0	r F	64.0	5
248	64	70.0	67.0	F	60.0	5
249	65	70.0	67.0	F	67.5	1
250	66	70.0	66.5	М	73.0	11
251	66	70.0	66.5	М	72.0	11
252	66	70.0	66.5	М	72.0	11
253	66	70.0	66.5	М	66.5	11
254	66	70.0	66.5	F	69.2	11
255	66	70.0	66.5	F	67.2	11
256	66	70.0	66.5	F	66.5	11
257	66	70.0	66.5	F	66.0	11
258	66	70.0	66.5	F	66.0	11
259 260	66 66	70.0 70.0	66.5	F F	64.2 63.7	11 11
261	67	70.0 70.5	66.5 65.0	Г М	72.0	11 4
201	07	/ U . J	0.5	11	/ Z • V	4

262 263	67 67	70.5 70.5	65.0 65.0	M M	70.2 69.0	4 4
264	67	70.5	65.0	M	68.5	4
265	68	70.5	65.0	F	68.0	5
266	68	70.5	65.0	F	65.0	5
267 268	68 68	70.5 70.5	65.0 65.0	F F	61.5 61.0	5 5
269	68	70.5	65.0	r F	61.0	5
270	69	70.0	65.0	M	73.0	8
271	69	70.0	65.0	M	72.0	8
272	69	70.0	65.0	М	70.5	8
273	69	70.0	65.0	М	65.0	8
274	69	70.0	65.0	М	65.0	8
275	69	70.0	65.0	F	64.5	8
276	69	70.0	65.0	F	63.0	8
277	69	70.0	65.0	F	62.0	8
278	70	70.0	65.0	М	67.0	5
279	70	70.0	65.0	М	65.0	5
280	70	70.0	65.0	F	64.5	5
281	70	70.0	65.0	F	62.5	5
282	70	70.0	65.0	F	62.5	5
283	71	70.0	65.0	М	70.0	6
284	71	70.0	65.0	М	70.0	6
285	71 71	70.0	65.0	F F	67.0	6
286 287	71 71	70.0 70.0	65.0 65.0	F	65.0 65.0	6 6
288	71	70.0	65.0	r F	63.0	6
289	72	70.0	65.0	M	79.0	7
290	72	70.0	65.0	М	75 . 0	7
291	72	70.0	65.0	М	71.0	, 7
292	72	70.0	65.0	F	69.0	7
293	72	70.0	65.0	F	67.0	7
294	72	70.0	65.0	F	65.7	7
295	72	70.0	65.0	F	62.0	7
296	73	70.0	65.0	М	73.0	3
297	73	70.0	65.0	М	72.5	3
298	73	70.0	65.0	F	65.0	3 3 2
299	74	70.0	65.0	М	69.0	2
300	74	70.0	65.0	М	69.0	2
301	75	70.0	64.7	М	72.0	7
302	75 75	70.0	64.7	М	70.0	7
303	75 75	70.0	64.7	М	68.7	7
304	75 75	70.0	64 . 7	F	66.5	7
305	75 75	70.0	64.7	F	65.5	7 7
306 307	75 75	70.0 70.0	64.7 64.7	F F	64.7 64.5	7
308	75 76	70.0	64.0	M	70 . 7	7
309	76	70.0	64.0	М	70.0	7
310	76	70.0	64.0	М	68.0	7
311	76	70.0	64.0	M	67.0	, 7
		-	-			-

312	76	70.0	64.0	М	66.0	7
313	76	70.0	64.0	М	65.0	7
314	76	70.0	64.0	F	67.0	7
315	77 77	70.0	64.0	M	70.0	4
316	77 77	70.0	64.0	M	68.0	4
317 318	77 77	70.0 70.0	64.0 64.0	M F	66.7 65.5	4 4
319	77 78	70.0	64.2	M	72.0	5
320	78	70.0	64.2	M	70.0	5
321	78	70.0	64.2	F	62.5	5
322	78	70.0	64.2	F	61.2	5
323	78	70.0	64.2	F	60.1	5 5 5
324	79	70.5	64.0	М	74.0	8
325	79	70.5	64.0	М	69.5	8
326	79	70.5	64.0	М	69.0	8
327	79	70.5	64.0	М	68.0	8
328	79	70.5	64.0	М	68.0	8
329	79	70.5	64.0	M	68.0	8
330	79	70.5	64.0	F	65.5	8
331	79	70 . 5	64.0	F	65.0	8
332	80	70.5	64.5	F	60.0	1 4
333 334	81 81	70.0	64.0 64.0	M F	68.0	4
335	81	70.0 70.0	64.0	F	65.0 64.0	4
336	81	70.0	64.0	F	62.0	4
337	82	70.0	64.0	M	71.0	9
338	82	70.0	64.0	 М	70.0	9
339	82	70.0	64.0	M	70.0	9
340	82	70.0	64.0	М	70.0	9
341	82	70.0	64.0	М	69.5	9
342	82	70.0	64.0	М	68.5	9
343	82	70.0	64.0	F	69.0	9
344	82	70.0	64.0	F	65.0	9
345	82	70.0	64.0	F	64.0	9
346	83	70.0	63.7	M	70.0	8
347	83	70.0	63.7	M	67.0	8
348	83 93	70.0	63.7	М	65.5	8
349 350	83 83	70.0	63.7 63.7	F	63.7 63.2	8 8
351	83	70.0 70.0	63.7	F F	62.5	8
352	83	70.0	63.7	F	62.2	8
353	83	70.0	63.7	F	61.0	8
354	85	70.5	63.0	М	72.5	5
355	85	70.5	63.0	М	69.0	5 5 5
356	85	70.5	63.0	M	67.0	5
357	85	70.5	63.0	F	64.5	5
358	85	70.5	63.0	F	64.0	5
359	86	70.0	63.5	М	71.0	4
360	86	70.0	63.5	M	67.5	4
361	86	70.0	63.5	F	67.5	4

362	86	70.0	63.5	F	63.5	4
	87					
363		70.0	63.0	М	68.0	4
364	87	70.0	63.0	M	67.0	4
365	87	70.0	63.0	F	63.7	4
366	87	70.0	63.0	F	62.0	4
367	88	70.0	63.0	М	70.0	4
368	88	70.0	63.0	М	66.5	4
369	88	70.0	63.0	F	62.0	4
370	88	70.0	63.0	F	61.0	4
371	89	70.5	62.0	M	72.0	8
372	89	70.5	62.0	M	70.0	8
373	89	70.5	62.0	М	69.5	8
374	89					
		70.5	62.0	М	69.5	8
375	89	70.5	62.0	M	68.0	8
376	89	70.5	62.0	F	65.0	8
377	89	70.5	62.0	F	64.0	8
378	89	70.5	62.0	F	63.0	8
379	90	70.3	62.7	М	70.7	7
380	90	70.3	62.7	М	69.7	7
381	90	70.3	62.7	М	69.2	7
382	90	70.3	62.7	М	65.2	7
383	90	70.3	62.7	F	64.0	7
384	90	70.3	62.7	F	63.5	7
				F		
385	90	70.3	62.7		63.2	7
386	91	70.5	62.0	М	72.0	3
387	91	70.5	62.0	M	72.0	3 3 2 2
388	91	70.5	62.0	F	60.0	3
389	92	70.0	61.0	М	71.2	2
390	92	70.0	61.0	М	67.0	
391	93	70.0	60.0	М	67.0	4
392	93	70.0	60.0	М	64.5	4
393	93	70.0	60.0	F	65.0	4
394	93	70.0	60.0	F	63.0	4
395	94	70.0	60.0	F.	65.0	2
396	94	70.0	60.0	F	65.0	2
397	95	70.0	58.5	M	71.5	
398					64.5	3 3
	95 05	70.0	58.5	М		2
399	95	70.0	58.5	F	63.0	3
400	96	70.0	58.0	М	72.0	5 5
401	96	70.0	58.0	М	66.0	5
402	96	70.0	58.0	F	66.0	5
403	96	70.0	58.0	F	65.0	5
404	96	70.0	58.0	F	63.0	5
405	97	69.0	68.5	М	75.0	10
406	97	69.0	68.5	М	71.0	10
407	97	69.0	68.5	М	70.0	10
408	97	69.0	68.5	F	66.0	10
409	97	69.0	68.5	F	66.0	10
410	97	69.0	68.5	F	65.5	10
411	97	69.0	68.5	F	65.0	10
411	91	03.0	00.0	ı	00.0	ΤØ

412	97	69.0	68.5	F	65.0	10
413	97	69.0	68.5	F	64.0	10
414	97	69.0	68.5	F	64.0	10
415	98	69.0	67.0	F	64.0	1
416	99	69.0	66.0	М	73.0	8
417	99	69.0	66.0	М	72.0	8
418	99	69.0	66.0	М	71.7	8
419	99	69.0	66.0	М	71.5	8
420	99	69.0		F		8
			66.0		65.5	
421	99	69.0	66.0	F	65.0	8
422	99	69.0	66.0	F	62.7	8
423	99	69.0	66.0	F	62.5	8
424	100	69.0	66.0	М	71.2	3
						3
425	100	69.0	66.0	М	71.0	2
426	100	69.0	66.0	М	70.0	3
427	101	69.0	66.7	М	75.0	6
428	101	69.0	66.7	М	74.0	6
429	101	69.0	66.7	М	72.0	6
430	101	69.0	66.7	М	68.5	6
431	101	69.0	66.7	М	67.0	6
432	101	69.0	66.7	М	66.0	6
433	102	69.0	66.0	М	70.0	6
434	102	69.0	66.0	M	68.5	6
435	102	69.0	66.0	М	68.0	6
436	102	69.0	66.0	F	65.0	6
437	102	69.0	66.0	F	63.0	6
438	102	69.0	66.0	F	62.5	6
439	103	69.0	66.5	М	73.0	5
						5
440	103	69.0	66.5	М	71.0	5
441	103	69.0	66.5	М	70.5	5
442	103	69.0	66.5	M	70.5	5
443	103	69.0	66.5	F	61.0	5
444	104	69.5	66.5	М	70.5	4
445	104	69.5		М		4
			66.5		67.5	
446	104	69.5	66.5	F	64.5	4
447	104	69.5	66.5	F	64.0	4
448	105	69.0	66.5	М	71.0	6
449	105	69.0	66.5	F	68.5	6
450	105	69.0	66.5	F	67.5	6
451	105	69.0	66.5	F	66.0	6
452	105	69.0	66.5	F	63.0	6
453	105	69.0	66.5	F	63.0	6
454	106	69.5	66.0	М	71.0	7
455		69.5	66.0	M	71.0	7
	106					
456	106	69.5	66.0	М	70.5	7
457	106	69.5	66.0	М	70.5	7
458	106	69.5	66.0	F	66.5	7
459	106	69.5	66.0	F	65.5	7
460	106	69.5	66.0	F	64.5	7
461	107	69.0	66.0	М	73.0	9

462	107	69.0	66.0	М	72.0	9
463	107	69.0	66.0	М	69.0	9
464	107	69.0	66.0	M	69.0	9
465	107	69.0	66.0	F	66.5	9
466	107	69.0	66.0	F	65.5	9
467	107	69.0	66.0	F	65.5	9
468	107	69.0	66.0	F	65.0	9
				F		
469	107	69.0	66.0		64.0	9
470	108	69.0	65.0	М	70.0	7
471	108	69.0	65.0	М	68.5	7
472	108	69.0	65.0	М	67.0	7
473	108	69.0	65.0	F	65.0	7
474	108	69.0	65.0	F	64.0	7
475	108	69.0	65.0	F	63.5	7
				F		7
476	108	69.0	65.0		61.0	
477	109	69.5	64.5	М	69.7	7
478	109	69.5	64.5	М	68.0	7
479	109	69.5	64.5	М	60.0	7
480	109	69.5	64.5	F	65.2	7
481	109	69.5	64.5	F	64.5	7
482	109	69.5	64.5	F	63.7	7
483	109	69.5	64.5	F		7
					60.0	
484	110	69.2	64.0	М	71.7	4
485	110	69.2	64.0	М	66.5	4
486	110	69.2	64.0	F	65.0	4
				F		
487	110	69.2	64.0		63.5	4
488	112	69.0	63.0	М	69.0	3
489	112	69.0	63.0	F	67.5	3
490	112	69.0	63.0	F	63.5	3
491	113	69.0	63.0	М	72.0	1
492	114	69.0	63.0	М	73.0	6
493	114	69.0	63.0	М	70.0	6
494	114	69.0	63.0	М	70.0	6
495	114	69.0	63.0	М	64.0	6
496	114	69.0	63.0	F	66.0	6
497	114	69.0	63.0	F	62.0	6
498	115	69.0	63.5	М	70.5	7
499	115	69.0	63.5	М	67.0	7
500	115	69.0	63.5	M	66.0	7
501	115	69.0	63.5	F	65.0	7
502	115	69.0	63.5	F	63.0	7
503	115	69.0	63.5	F	62.0	7
504	115	69.0	63.5	F	61.0	7
505	116	69.0	63.5	М	70.5	3
	116	69.0				2
506			63.5	F	63.7	3 3 3
507	116	69.0	63.5	F	63.0	3
508	117	69.7	62.0	F	62.5	1
509	118	69.5	62.0	М	73.0	3
						3
510	118	69.5	62.0	M	72.0	2
511	118	69.5	62.0	М	69.0	3

512	119	69.0	62.0	М	73.0	5
	119					5
513		69.0	62.0	М	71.0	5 5 5
514	119	69.0	62.0	М	71.0	5
515	119	69.0	62.0	М	69.0	5
516	119	69.0	62.0	F	63.0	5
517	121	69.0	62.5	М	71.0	8
518	121	69.0	62.5	М	70.0	8
519	121	69.0	62.5	М	70.0	8
520	121	69.0	62.5	М	69.0	8
521	121	69.0	62.5	F	63.5	8
522	121	69.0	62.5	F	62.5	8
523	121	69.0	62.5	F	62.5	8
				F		
524	121	69.0	62.5		62.0	8
525	122	69.0	62.0	М	72.0	4
526	122	69.0	62.0	М	68.0	4
527	122	69.0	62.0	F	66.0	4
528	122	69.0	62.0	F	66.0	4
529	123	69.5	61.0	М	70.0	5
530	123	69.5	61.0	М	69.5	5
531	123	69.5	61.0	М	69.0	5 5
532	123	69.5	61.0	F	63.0	5
533	123	69.5	61.0	F	62.0	5
534	124	69.0	61.0	M	68.0	9
535	124	69.0	61.0	M	68.0	9
536	124	69.0	61.0	М	67.5	9
537	124	69.0	61.0	М	64.0	9
538	124	69.0	61.0	М	63.0	9
539	124	69.0	61.0	М	63.0	9
540	124	69.0	61.0	F	63.5	9
541	124	69.0	61.0	F	62.0	9
542	124	69.0	61.0	F	62.0	9
543	125	69.0	60.0	М	70.5	3
544	125	69.0	60.0	F	68.0	3 3
545	125	69.0	60.0	F	62.5	3
546	126	69.0	60.0	M	69.0	4
547	126	69.0	60.0	M	66.0	4
548	126	69.0	60.0	F	61.7	4
549	126	69.0	60.0	F	60.5	4
550	127	69.0	60.5	М	69.5	1
551	128	68.7	70.5	М	71.0	2
552	128	68.7	70.5	F	61.7	2
553	129	68.5	67.0	М	73.0	3
554	129	68.5	67.0	М	71.0	3
555	129	68.5	67.0	F	67.0	3
556	130	68.5	66.5	М	70.0	11
557	130	68.5	66.5	М	69.0	11
558	130	68.5	66.5	M	69.0	11
559	130	68.5	66.5	M	68.7	11
560	130	68.5	66.5	M	68.5	11
				M		11
561	130	68.5	66.5	ľľ	68.5	11

562	130	68.5	66.5	М	68.0	11
563	130	68.5	66.5	М	68.0	11
564	130	68.5	66.5	М	68.0	11
565	130	68.5	66.5	F	63.2	11
566	131	68.0	65.0	М	67.5	2
567	131	68.0	65.0	М	66.0	2
568	132	68.0	65.5	М	66.0	2
569	132	68.0	65.5	F	64.0	2
570	133	68.0	65.5	М	71.7	7
571	133	68.0	65.5	М	71.5	7
572	133	68.0	65.5	М	70.7	7
573	133	68.0	65.5	М	65.5	7
574	133	68.0	65.5	F	66.5	7
575	133	68.0	65.5	F	65.2	7
576	133	68.0	65.5	F	61.5	7
577	134	68.0	65.0	М	72.0	4
578	134	68.0	65.0	М	72.0	4
579	134	68.0	65.0	F	68.0	4
580	134	68.0	65.0	F	66.0	4
581	135	68.5	65.0	М	69.2	8
582	135	68.5	65.0	М	68.0	8
583	135	68.5	65.0	М	66.0	8
584	135	68.5	65.0	М	66.0	8
585	135	68.5	65.0	F	62.0	8
586	135	68.5	65.0	F	61.5	8
587	135	68.5	65.0	F	61.0	8
588	135	68.5	65.0	F	60.0	8
589	136	68.0	64.0	М	71.0	10
590	136	68.0	64.0	М	68.0	10
591	136	68.0	64.0	М	68.0	10
592	136	68.0	64.0	М	67.0	10
593	136	68.0	64.0	F	65.0	10
594	136	68.0	64.0	F	64.0	10
595	136	68.0	64.0	F	63.0	10
596	136	68.0	64.0	F	63.0	10
597	136	68.0	64.0	F	62.0	10
598	136	68.0	64.0	F	61.0	10
599	137	68.0	64.0	М	66.0	4
600	137	68.0	64.0	М	63.0	4
601	137	68.0	64.0	F	65.5	4
602	137	68.0	64.0	F	62.0	4
603	138	68.0	64.0	М	71.2	5
604	138	68.0	64.0	М	71.2	5
605	138	68.0	64.0	М	69.0	5
606	138	68.0	64.0	М	68.5	5
607	138	68.0	64.0	F	62.5	5 5 5 5 5
608	139	68.0	64.5	F	62.0	1
609	140	68.0	64.0	М	69.0	10
610	140	68.0	64.0	М	67.0	10
611	140	68.0	64.0	М	66.0	10

612	140	68.0	64.0	F	66.0	10
613	140	68.0	64.0	F	66.0	10
614	140	68.0	64.0	F	65.0	10
615	140	68.0	64.0	F	65.0	10
616	140	68.0	64.0	F	65.0	10
617	140	68.0	64.0	F	64.0	10
618	140	68.0	64.0	F	63.0	10
619	141	68.0	63.0	М	70.5	8
620	141	68.0	63.0	М	70.0	8
621	141	68.0	63.0	М	68.0	8
622	141	68.0	63.0	М	66.0	8
623	141	68.0	63.0	М	66.0	8
624	141	68.0	63.0	F	66.0	8
625	141	68.0	63.0	F	62.0	8
626	141	68.0	63.0	F	61.5	8
627	142	68.5	63.5	М	73.5	4
628	142	68.5	63.5	М	70.0	4
629	142	68.5	63.5	М	69.5	4
630	142	68.5	63.5	F	65.5	4
631	143	68.0	63.0	М	67.0	1
632	144	68.0	63.0	М	70.0	4
633	144	68.0	63.0	М	68.0	4
634	144	68.0	63.0	F	64.5	4
635	144	68.0	63.0	F	64.0	4
636	145	68.0	63.0	М	71.0	8
637	145	68.0	63.0	М	68.0	8
638	145	68.0	63.0	М	66.0	8
639	145	68.0	63.0	М	65.5	8
640	145	68.0	63.0	М	65.0	8
641	145	68.0	63.0	F	63.0	8
642	145	68.0	63.0	F	62.0	8
643	145	68.0	63.0	F	62.0	8
644	146	68.0	63.0	М	67.0	6
645	146	68.0	63.0	М	67.0	6
646	146	68.0	63.0	М	66.0	6
647	146	68.0	63.0	F	64.0	6
648	146	68.0	63.0	F	63.5	6
649	146	68.0	63.0	F	61.0	6
650	147	68.5	63.5	М	68.2	1
651	148	68.0	63.0	М	70.0	1
652	149	68.2	63.5	М	70.0	5
653	149	68.2	63.5	М	69.0	5
654	149	68.2	63.5	М	67.0	5
655	149	68.2	63.5	М	65.5	5
656	149	68.2	63.5	F	64.5	5
657	150	68.0	62.5	М	68.5	1
658	151	68.7	62.0	М	67.7	2
659	151	68.7	62.0	F	61.7	2
660	152	68.0	62.5	М	66.5	1
661	153	68.0	61.0	М	68.5	5

662	153	68.0	61.0	М	68.0	5
663	153	68.0	61.0	М	64.0	5
664	153	68.0	61.0	F	63.5	5
665	153	68.0	61.0	F	63.0	5
666	154			М	66.7	1
		68.0	60.2			
667	155	68.0	60.0	М	64.0	7
668	155	68.0	60.0	F	61.0	7
669	155	68.0	60.0	F	61.0	7
670	155	68.0	60.0	F	60.0	7
671	155	68.0	60.0	F	60.0	7
672	155	68.0	60.0	F	60.0	7
673	155	68.0	60.0	F	56.0	7
674	156	68.0	60.0	М	67.5	4
675	156	68.0	60.0	М	67.0	4
676	156	68.0	60.0	М	66.5	4
677	156	68.0	60.0	F	60.0	4
678	157	68.5	59.0	М	69.0	1
679	158	68.0	59.0	М	68.0	10
680	158	68.0	59.0	М	65.0	10
681	158	68.0	59.0	M	64.7	10
682	158	68.0	59.0	М	64.0	10
683	158	68.0	59.0	М	64.0	10
684	158	68.0	59.0	М	63.0	10
685	158	68.0	59.0	F	65.0	10
686	158	68.0	59.0	F	65.0	10
687	158	68.0	59.0	F	62.0	10
688	158	68.0	59.0	F	61.0	10
689	159	67.0	66.2	М	72.7	5
690	159	67.0	66.2	M	72.7	5
						5
691	159	67.0	66.2	М	71.5	5
692	159	67.0	66.2	F	65.5	5
693	159	67.0	66.2	F	63.5	5
694	160	67.0	66.5	М	71.0	1
						6
695	162	67.0	65.0	М	69.7	
696	162	67.0	65.0	М	67.5	6
697	162	67.0	65.0	F	65.5	6
698	162	67.0	65.0	F	65.0	6
699	162	67.0	65.0	F.	64.5	6
700	162	67.0	65.0	F	63.5	6
701	163	67.0	65.5	М	70.0	5
702	163	67.0	65.5	М	69.0	5
703	163	67.0	65.5	F	65.5	5
						5
704	163	67.0	65.5	F	65.5	5
705	163	67.0	65.5	F	63.0	5
706	164	67.0	65.5	М	70.0	4
707	164	67.0	65.5	М	67.7	4
708	164	67 . 0	65.5	F	63.0	4
709	164	67.0	65.5	F	60.0	4
710	165	67.0	65.0	М	65.0	3
711	165	67.0	65.0	F	62.0	3
		-	-		-	_

712 713 714	165 166 166	67.0 67.5 67.5	65.0 65.0 65.0	F M M	62.0 71.0 69.0	3 11 11
715	166	67.5	65.0	F	64.0	11
716 717	166 166	67.5 67.5	65.0 65.0	F F	64.0 63.0	11 11
717	166	67 . 5	65.0	F	63.0	11
719	166	67.5	65.0	F	63.0	11
720	166	67.5	65.0	F	63.0	11
721	166	67 . 5	65.0	F	63.0	11
722 723	166 166	67.5 67.5	65.0 65.0	F F	62.5 62.0	11 11
723	167	67.0	64.0	M	71.5	4
725	167	67.0	64.0	М	70.0	4
726	167	67.0	64.0	М	67.0	4
727	167	67.0	64.0	М	67.0	4
728	168	67.0	63.5	M	71.0	8
729 730	168 168	67.0 67.0	63.5 63.5	M M	70.2 69.2	8 8
731	168	67.0	63.5	M	68.5	8
732	168	67.0	63.5	М	68.0	8
733	168	67.0	63.5	М	67.0	8
734	168	67.0	63.5	M	65.5	8
735	168	67 . 0	63.5	F	63.5	8
736 737	169 169	67.0 67.0	63.0 63.0	M M	69.0 68.0	3 3
737 738	169	67.0	63.0	F	63.0	3
739	170	67.5	62.0	М	70.0	
740	170	67.5	62.0	М	69.5	5 5
741	170	67.5	62.0	М	69.0	5
742	170	67 . 5	62.0	M	68.5	5
743 744	170 171	67.5 67.0	62.0 61.0	F M	66.0 67.0	5 1
744 745	171	66.0	67.0	M	70.5	8
746	172	66.0	67 . 0	M	70.5	8
747	172	66.0	67.0	М	67.0	8
748	172	66.0	67.0	М	66.0	8
749	172	66.0	67.0	M	66.0	8
750 751	172	66.0	67 . 0	F	62.0	8
751 752	172 172	66.0 66.0	67.0 67.0	F F	62.0 61.5	8 8
753	173	66.0	67.0	М	72.0	9
754	173	66.0	67.0	М	65.0	9
755	173	66.0	67.0	М	65.0	9
756	173	66.0	67.0	F	67.0	9
757 758	173 173	66.0	67.0	F F	64.0	9
756 759	173 173	66.0 66.0	67.0 67.0	г F	64.0 62.0	9 9
760	173	66.0	67 . 0	F	60.0	9
761	173	66.0	67.0	F	60.0	9

762	174	66.0	66.0	М	66.0	5
763	174	66.0	66.0	M	65.0	5 5
764	174	66.0	66.0	F	67.0	5
765	174	66.0	66.0	F	66.5	5
766	174	66.0	66.0	F	65.5	5
767	175	66.0	66.0	M	72.0	6
768	175 175	66.0	66.0	M	68.0	6
769	175 175	66.0	66.0	F	66.0	6
709 770				F		
	175 175	66.0	66.0		65.0	6
771	175	66.0	66.0	F	62.0	6
772	175 176	66.0	66.0	F	61.0	6
773	176	66.5	65.0	М	68.7	8
774	176	66.5	65.0	М	68.5	8
775	176	66.5	65.0	М	66.5	8
776	176	66.5	65.0	М	64.5	8
777	176	66.5	65.0	F	62.5	8
778	176	66.5	65.0	F	60.5	8
779	176	66.5	65.0	F	60.5	8
780	176	66.5	65.0	F	57.5	8
781	177	66.0	65.5	М	72.0	5
782	177	66.0	65.5	М	71.0	5
783	177	66.0	65.5	М	67.0	5
784	177	66.0	65.5	F	66.0	5
785	177	66.0	65.5	F	65.0	5
786	178	66.0	63.0	М	70.0	1
787	179	66.0	63.5	F	64.5	2
788	179	66.0	63.5	F	62.0	2
789	180	66.5	63.0	М	67.2	6
790	180	66.5	63.0	 М	67.0	6
791	180	66.5	63.0	 М	65.0	6
792	180	66.5	63.0	F.	65.0	6
793	180	66.5	63.0	F	65.0	6
794	180	66.5	63.0	, F	63.0	6
795	181	66.5	62.5	M	70.0	7
795 796	181	66.5	62.5		68.0	
				М		7
797	181	66.5	62.5	F	63.5	7
798	181	66.5	62.5	F	62.5	7
799	181	66.5	62.5	F	62.5	7
800	181	66.5	62.5	F	62.5	7
801	181	66.5	62.5	F	62.5	7
802	182	66.0	61.5	М	70.0	1
803	183	66.0	60.0	М	68.0	4
804	183	66.0	60.0	М	67.0	4
805	183	66.0	60.0	М	65.0	4
806	183	66.0	60.0	F	60.0	4
807	184	66.0	60.0	М	65.0	1
808	185	66.0	59.0	М	68.0	15
809	185	66.0	59.0	М	67.0	15
810	185	66.0	59.0	М	66.5	15
811	185	66.0	59.0	М	66.0	15

812	185	66.0	59.0	М	65.7	15
813	185	66.0	59.0	М	65.5	15
814	185	66.0	59.0	М	65.0	15
815	185	66.0	59.0	F	65.0	15
816	185	66.0	59.0	F	64.0	15
817	185	66.0	59.0	F	63.0	15
818	185	66.0	59.0	F	62.0	15
819	185	66.0	59.0	F	61.0	15
820	185	66.0	59.0	F	60.0	15
821	185	66.0	59.0	F	58.0	15
822	185	66.0	59.0	F	57.0	15
823	186	65.0	67.0	М	66.5	4
824	186	65.0	67.0	М	66.0	4
825	186	65.0	67.0	М	66.0	4
826	186	65.0	67.0	F	65.0	4
827	187	65.0	67.0	F	63.0	1
828	188	65.0	66.0	Μ	63.0	4
829	188	65.0	66.0	F	63.0	4
830	188	65.0	66.0	F	63.0	4
831	188	65.0	66.0	F	60.0	4
832	190	65.0	65.0	М	69.0	9
833	190	65.0	65.0	М	68.0	9
834	190	65.0	65.0	М	68.0	9
835	190	65.0	65.0	F	65.0	9
836	190	65.0	65.0	F	65.0	9
837	190	65.0	65.0	F	62.0	9
838	190	65.0	65.0	F	62.0	9
839	190	65.0	65.0	F	61.0	9
840	190	65.0	65.0	F	59.0	9
841	191	65.0	65.5	М	70.7	2
842	191	65.0	65.5	F	65.5	2
843	192	65.0	65.0	М	69.2	6
844	192	65.0	65.0	М	69.0	6
845	192	65.0	65.0	М	68.0	6
846	192	65.0	65.0	М	67.7	6
847	192	65.0	65.0	F	64.5	6
848	192	65.0	65.0	F	60.5	6
849	193	65.0	64.0	M	67.0	6
850	193	65.0	64.0	М	67.0	6
851	193	65.0	64.0	F	64.0	6
852	193	65.0	64.0	F	64.0	6
853	193	65.0	64.0	F	62.5	6
854	193	65.0	64.0	F	60.5	6
855	194	65.0	63.0	M	70.0	
856	194	65.0	63.0	F	63.0	2
857	195	65.0	63.0	M	66.0	3
858	195	65.0	63.0	M	66.0	3
859	195	65.0	63.0	F	63.0	2 2 3 3 3
860	196	65.5	63.0	M	71.0	4
861	196	65.5	63.0	M	71.0	4
301	100	33.3		••	, 110	•

```
65.5
862
        196
                        63.0
                                        69.0
                                   М
                                                  4
863
        196
               65.5
                        63.0
                                   F
                                        63.5
                                                  4
                                                  5
864
        197
               65.5
                        60.0
                                   М
                                        68.0
                                                  5
        197
865
               65.5
                        60.0
                                   Μ
                                        68.0
                                                  5
866
        197
               65.5
                                   М
                                        67.0
                        60.0
                                                  5
867
        197
               65.5
                        60.0
                                   М
                                        67.0
                                                  5
868
        197
               65.5
                        60.0
                                   F
                                        62.0
                                                  7
869
        198
               64.0
                        64.0
                                   М
                                        71.5
                                                  7
870
        198
               64.0
                        64.0
                                   М
                                        68.0
                                   F
                                        65.5
                                                  7
871
        198
               64.0
                        64.0
872
        198
                        64.0
                                    F
                                        64.0
                                                  7
               64.0
                                                  7
873
        198
               64.0
                        64.0
                                    F
                                        62.0
874
        198
               64.0
                        64.0
                                    F
                                        62.0
                                                  7
                                                  7
        198
                                   F
875
               64.0
                        64.0
                                        61.0
                                                  7
876
        199
               64.0
                        64.0
                                   Μ
                                        70.5
        199
                                                  7
877
               64.0
                        64.0
                                   Μ
                                        68.0
                                                  7
878
        199
               64.0
                        64.0
                                    F
                                        67.0
879
        199
                                    F
                                                  7
               64.0
                        64.0
                                        65.0
                                                  7
880
        199
               64.0
                        64.0
                                    F
                                        64.0
                                    F
                                                  7
881
        199
               64.0
                        64.0
                                        64.0
                                   F
                                                  7
        199
                        64.0
882
               64.0
                                        60.0
883
        200
               64.0
                        63.0
                                   Μ
                                        64.5
                                                  1
                                                  2
884
        201
                        60.0
                                        66.0
               64.0
                                   Μ
                                                  2
885
        201
                                   F
               64.0
                        60.0
                                        60.0
                                                  3
886
        203
               62.0
                        66.0
                                   Μ
                                        64.0
                                                  3
887
        203
                        66.0
                                    F
                                        62.0
               62.0
                                    F
                                                  3
888
        203
               62.0
                        66.0
                                        61.0
                                                  2
889
        204
                                        66.5
               62.5
                        63.0
                                   Μ
                                                  2
890
        204
               62.5
                        63.0
                                   F
                                        57.0
891
       136A
               68.5
                        65.0
                                   М
                                        72.0
                                                  8
892
       136A
                        65.0
                                        70.5
                                                  8
               68.5
                                   Μ
893
       136A
               68.5
                        65.0
                                   М
                                        68.7
                                                  8
894
                                        68.5
                                                  8
       136A
               68.5
                        65.0
                                   М
895
       136A
               68.5
                                   М
                                        67.7
                                                  8
                        65.0
896
       136A
               68.5
                        65.0
                                    F
                                        64.0
                                                  8
                                   F
897
       136A
               68.5
                        65.0
                                        63.5
                                                  8
898
       136A
               68.5
                        65.0
                                        63.0
                                                  8
> getwd()
[1] "/Users/minshu"
> read.csv("Galton.csv")
    Family Father Mother Gender Height Kids
1
          1
               78.5
                       67.0
                                   Μ
                                        73.2
                                                  4
2
               78.5
                       67.0
                                        69.2
          1
                                   F
                                                  4
3
                                    F
          1
               78.5
                        67.0
                                        69.0
                                                  4
4
          1
               78.5
                        67.0
                                   F
                                        69.0
                                                  4
5
          2
                                                  4
               75.5
                        66.5
                                   М
                                        73.5
6
          2
               75.5
                        66.5
                                   Μ
                                        72.5
                                                  4
          2
7
               75.5
                        66.5
                                   F
                                        65.5
                                                  4
8
          2
                                    F
                       66.5
                                        65.5
                                                  4
               75.5
```

9

3

75.0

64.0

Μ

71.0

2

10 11 12 13 14 15 16	3 4 4 4 4 5 5	75.0 75.0 75.0 75.0 75.0 75.0 75.0	64.0 64.0 64.0 64.0 64.0 58.5	F M F F M	68.0 70.5 68.5 67.0 64.5 63.0 72.0	2 5 5 5 5 6 6
18 19 20 21 22 23 24 25	5 5 5 6 7 7	75.0 75.0 75.0 75.0 74.0 74.0 74.0	58.5 58.5 58.5 68.0 68.0 68.0 68.0	M F F F M M	68.0 66.5 62.5 69.5 76.5 74.0 73.0	6 6 6 1 6 6
26 27 28 29 30 31 32	7 7 7 8 8 8	74.0 74.0 74.0 74.0 74.0 74.0 74.0	68.0 68.0 68.0 66.5 66.5 66.5	M F F F F	73.0 70.5 64.0 70.5 68.0 66.0	6 6 6 3 3
33 34 35 36 37 38 39	10 11 11 11 11 11	74.0 74.0 74.0 74.0 74.0 74.0 74.0	65.5 62.0 62.0 62.0 62.0 62.0 62.0	F M M F F F	65.5 74.0 70.0 68.0 67.0 67.0	1 8 8 8 8 8
40 41 42 43 44 45 46	11 11 12 14 14 15	74.0 74.0 74.0 73.0 73.0 73.0 73.0	62.0 62.0 61.0 67.0 67.0 66.5	F F M M M	63.5 63.0 65.0 68.0 67.0 71.0	8 8 1 2 2 3 3
47 48 49 50 51 52 53	15 16 16 16 16 16 16	73.0 73.0 73.0 73.0 73.0 73.0 73.0	66.5 65.0 65.0 65.0 65.0 65.0	F M M M M M	66.7 72.0 70.5 70.2 70.2 69.2 68.7	3 9 9 9 9 9
54 55 56 57 58 59	16 16 16 17 17	73.0 73.0 73.0 73.0 73.0 73.0	65.0 65.0 65.0 64.5 64.5	F F M M	66.5 64.5 63.5 74.0 73.0 71.5	9 9 9 6 6

TOO	60 61 62 63 64 65 66 67 77 77 77 77 78 81 82 83 84 85 88 99 91 92 93 94 95 96 97 98 99 100 100 100 100 100 100 100 100 100	17 17 17 18 18 18 19 20 20 20 20 20 21 21 21 22 22 23 23 23 23 23 23 24 25 26 26 26 27 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	73.0 73.0 73.0 73.0 73.0 73.0 72.7 72.7 72.0 72.0 72.0 72.0 72.0 72	64.5 64.5 64.0 64.0 64.0 64.0 65.0 69.0 69.0 69.0 69.0 69.0 69.0 65.0 65.0 65.0 65.0 65.0 63.0 63.0 63.0 63.0 63.0 63.0 63.0 63	M F F F F F M M F F F F M M M F F F F F F M M F F M M F F F	62.5 66.3 66.3 66.0 67.3 67.0 68.0 67.0 67.0 67.0 67.0 67.0 67.0 67.0 67	6663331888888883333377777122555533366666
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 101 102	28 28 28 28	72.0 72.0 72.0 72.0	63.0 63.0 63.0 63.0	M F F	67.0 70.5 70.0	6 6 6

110	21	72 F	62.0	М	70.0	6
110	31	72.5	62.0	М	70.0	6
111	31	72.5	62.0	М	70.0	6
112	31	72.5	62.0	F	66.0	6
113	31	72.5	62.0	F	65.0	6
114	31	72.5	62.0	F	65.0	6
115	32	72.0	62.0	М	74.0	5
116	32	72.0	62.0	М	72.0	5
117	32	72.0	62.0	М	69.0	5
						-
118	32	72.0	62.0	F	67.5	5
119	32	72.0	62.0	F	63.5	5
120	33	72.0	62.0	М	72.0	5
121	33	72.0	62.0	М	71.5	5
122	33	72.0	62.0	М	71.5	5
						5
123	33	72.0	62.0	М	70.0	5
124	33	72.0	62.0	F	68.0	5
125	34	72.0	61.0	F	65.7	1
126	35	71.0	69.0	М	78.0	5
						_
127	35	71.0	69.0	М	74.0	5
128	35	71.0	69.0	М	73.0	5
						_
129	35	71.0	69.0	М	72.0	5
130	35	71.0	69.0	F	67.0	5
131	36	71.0	67.0	М	73.2	4
132	36	71.0	67.0	М	73.0	4
133	36	71.0	67.0	М	69.0	4
134	36	71.0	67.0	F	67.0	4
135	37	71.0		М	70.0	4
			66.0			
136	37	71.0	66.0	F	67.0	4
137	37	71.0	66.0	F	67.0	4
138	37	71.0	66.0	F	66.5	4
139	38	71.0	66.0	М	70.0	6
140	38	71.0	66.0	М	69.0	6
141	38	71.0	66.0	М	68.5	6
142	38	71.0	66.0	F	66.0	6
143	38	71.0	66.0	F	64.5	6
144	38	71.0	66.0	F	63.0	6
145	39	71.0	66.0	М	71.0	2
146	39	71.0	66.0	F	67.0	2
						_
147	40	71.0	66.0	М	76.0	5
148	40	71.0	66.0	М	72.0	5
149	40			М		5
		71.0	66.0		71.0	5
150	40	71.0	66.0	М	66.0	5
151	40	71.0	66.0	F	66.0	5
152	41	71.7	65.5	М	70.5	1
153	42	71.0	65.5	М	72.0	6
154	42	71.0	65.5	М	72.0	6
155	42	71.0	65.5	М	71.0	6
156	42	71.0	65.5	М	69.0	6
157	42	71.0	65.5	F	66.0	6
158	42	71.0	65.5	F	65.0	6
159	43	71.5	65.5	М	73.0	2

160	43	71.5	65.5	F	65.2	2
161	44	71.5	65.0	М	68.5	2
162	44	71.5	65.0	М	67.7	2
163	45	71.0	65.0	М	68.0	3
						2
164	45	71.0	65.0	М	68.0	3
165	45	71.0	65.0	F	62.0	3
166	46	71.0	64.0	F	68.0	8
167	46	71.0	64.0	F	68.0	8
168	46	71.0	64.0	F	67.5	8
169	46	71.0	64.0	F	66.5	8
170	46	71.0	64.0	F	66.5	8
171	46	71.0	64.0	F	66.0	8
172	46	71.0	64.0	F	65.5	8
173	46	71.0	64.0	F	65.0	8
174	47	71.7	64.5	М	72.0	4
		71 7				
175	47	71.7	64.5	М	71.0	4
176	47	71.7	64.5	М	70.5	4
177	47	71.7	64.5	F	67.0	4
178	48	71.0	64.0	М	68.0	
						3 3
179	48	71.0	64.0	М	68.0	2
180	48	71.0	64.0	М	68.0	3
181	49	71.5	64.5	М	72.0	7
182	49	71.5	64.5	М	71.0	7
183	49	71.5	64.5	M	70.0	7
184	49	71.5	64.5	F	66.0	7
185	49	71.5	64.5	F	64.5	7
186	49	71.5	64.5	F	64.5	7
187	49	71.5	64.5	F	62.0	7
188	51	71.2	63.0	F	67.5	2
189	51	71.2	63.0	F	64.5	2
190	52	71.0	63.5	М	71.0	5
191	52	71.0	63.5	М	67.0	5
192	52	71.0		F	66.0	5
			63.5			
193	52	71.0	63.5	F	65.0	5
194	52	71.0	63.5	F	63.5	5
195	53	71.0	63.0	М	71.0	9
196	53	71.0	63.0	М	70.0	9
197	53	71.0	63.0	М	70.0	9
198	53	71.0	63.0	М	64.0	9
199	53	71.0	63.0	F	65.0	9
200	53	71.0	63.0	F	65.0	9
	53			F		
201		71.0	63.0		64.0	9
202	53	71.0	63.0	F	63.0	9
203	53	71.0	63.0	F	63.0	9
204	54	71.0	63.0	М	71.0	4
205	54	71.0	63.0	M	71.0	4
206	54	71.0	63.0	M	70.0	4
207	54	71.0	63.0	F	63.5	4
208	55	71.0	62.0	М	71.0	5
209	55	71.0	62.0	М	70.0	5
_03	33	, 110	0210		, 010	3

210	55	71.0	62.0	F	64.5	5
211	55	71.0	62.0	F	62.5	5
212	55	71.0	62.0	F	61.5	5
213	56	71.0	62.0	М	72.0	5
214	56	71.0	62.0	М	70.5	5
215	56	71.0	62.0	М	70.5	5
216	56	71.0	62.0	F	64.5	5
217	56	71.0	62.0	F	60.0	5
218	57	71.0	62.5	М	70.0	5
219	57	71.0	62.5	F	64.0	5
220	57	71.0	62.5	F	64.0	5
						5
221	57	71.0	62.5	F	64.0	5
222	57	71.0	62.5	F	62.5	5
223	58	71.0	62.0	М	70.5	7
224	58	71.0	62.0	М	70.0	7
225	58	71.0	62.0	М	69.0	7
226	58	71.0	62.0	М	69.0	7
227	58	71.0	62.0	М	66.0	7
228	58	71.0	62.0	F	64.5	7
229	58	71.0		F		7
			62.0		64.0	
230	59	71.0	61.0	F	62.0	1
231	60	71.0	58.0	М	71.5	2
232	60	71.0	58.0	М	69.0	2
233	61	70.0	69.0	М	71.0	4
234	61	70.0	69.0	М	70.0	4
235	61	70.0	69.0	М	69.0	4
236	61	70.0	69.0	F	69.0	4
237	62	70.0	69.0	М	70.0	6
238	62	70.0	69.0	М	68.7	6
239	62	70.0	69.0	F	68.0	6
240	62	70.0	69.0	F	66.0	6
241	62	70.0	69.0	F	64.0	6
242	62	70.0	69.0	F	62.0	6
243	63	70.0	68.0	M	75.0	1
						5
244	64	70.0	67.0	М	70.0	_
245	64	70.0	67.0	М	69.0	5
246	64	70.0	67.0	F	66.0	5
247	64	70.0	67.0	F	64.0	5
248	64	70.0	67.0	F	60.0	5
249	65	70.0	67.0	F	67.5	1
250	66	70.0	66.5	М	73.0	11
251	66	70.0	66.5	М	72.0	11
252	66	70.0	66.5	М	72.0	11
253	66	70.0	66.5	M	66.5	11
254	66	70.0	66.5	F	69.2	11
255	66	70.0	66.5	F	67.2	11
256	66	70.0	66.5	F	66.5	11
257	66	70.0	66.5	F	66.0	11
258	66	70.0	66.5	F	66.0	11
259	66	70.0	66.5	F	64.2	11

260	66	70 0	66 5	г	62.7	11	
260	66	70.0	66.5	F	63.7	11	
261	67	70.5	65.0	М	72.0	4	
262	67	70.5	65.0	M	70.2	4	
263	67	70.5	65.0	М	69.0	4	
264	67	70.5	65.0	M	68.5	4	
265	68	70.5	65.0	F	68.0	5	
266	68	70.5	65.0	F	65.0	5	
267	68	70.5	65.0	F	61.5	5	
268	68	70.5	65.0	F	61.0	5	
269	68	70.5	65.0	F	61.0	5	
270	69	70.0	65.0	М	73.0	8	
271	69	70.0	65.0	М	72.0	8	
272	69	70.0	65.0	М	70.5	8	
273	69	70.0	65.0	М	65.0	8	
274	69	70.0	65.0	М	65.0	8	
275	69	70.0	65.0	F	64.5	8	
276	69	70.0	65.0	F	63.0	8	
277	69	70.0	65.0	F	62.0	8	
278	70	70.0	65.0	М	67.0	5	
279	70	70.0	65.0	M	65.0	5	
280	70	70.0	65.0	F	64.5	5	
281	70 70	70.0	65.0	F	62.5	5	
282	70 70	70.0		F	62.5	5	
			65.0				
283	71	70.0	65.0	M	70.0	6	
284	71	70.0	65.0	М	70.0	6	
285	71	70.0	65.0	F	67.0	6	
286	71	70.0	65.0	F	65.0	6	
287	71	70.0	65.0	F	65.0	6	
288	71	70.0	65.0	F	63.0	6	
289	72	70.0	65.0	М	79.0	7	
290	72	70.0	65.0	М	75.0	7	
291	72	70.0	65.0	М	71.0	7	
292	72	70.0	65.0	F	69.0	7	
293	72	70.0	65.0	F	67.0	7	
294	72	70.0	65.0	F	65.7	7	
295	72	70.0	65.0	F	62.0	7	
296	73	70.0	65.0	М	73.0	3	
297	73	70.0	65.0	М	72.5	3	
298	73	70.0	65.0	F	65.0	3 3	
299	74	70.0	65.0	М	69.0	2	
300	74	70.0	65.0	М	69.0	2	
301	75	70.0	64.7	М	72.0	7	
302	75	70.0	64.7	М	70.0	7	
303	75	70.0	64.7	M	68.7	7	
304	75	70.0	64.7	F	66.5	7	
305	75 75	70.0	64.7	F	65.5	7	
306	75 75	70.0	64.7	F	64.7	7	
307	75 75	70.0	64.7	F	64.5	7	
308	75 76	70.0	64.0	M	70.7	7	
309	76 76	70.0 70.0	64.0	M	70.7 70.0	7	
פשכ	70	/ U . U	U4 • U	ľ	/U.U	,	

310	76	70.0	64.0	М	68.0	7
311	76	70.0	64.0	М	67.0	7
312	76	70.0	64.0	М	66.0	7
313	76	70.0	64.0	М	65.0	7
314	76	70.0	64.0	F	67.0	7
315	77	70.0	64.0	М	70.0	4
316	77	70.0	64.0	М	68.0	4
317	77	70.0	64.0	М	66.7	4
318	77	70.0	64.0	F	65.5	4
319	78	70.0	64.2	М	72.0	5
320	78	70.0	64.2	М	70.0	5
321	78	70.0	64.2	F	62.5	5
322	78	70.0	64.2	F	61.2	5
323	78	70.0	64.2	F	60.1	5
324	79	70.5	64.0	М	74.0	8
325	79	70.5	64.0	М	69.5	8
326	79	70.5	64.0	М	69.0	8
327	79	70.5	64.0	М	68.0	8
328	79	70.5	64.0	М	68.0	8
329	79	70.5	64.0	М	68.0	8
330	79	70.5	64.0	F	65.5	8
331	79	70.5	64.0	F	65.0	8
332	80	70.5	64.5	F	60.0	1
333	81	70.0	64.0	М	68.0	4
334	81	70.0	64.0	F	65.0	4
335	81	70.0	64.0	F	64.0	4
336	81	70.0	64.0	F	62.0	4
337	82	70.0	64.0	М	71.0	9
338	82	70.0	64.0	М	70.0	9
339	82	70.0	64.0	М	70.0	9
340	82	70.0	64.0	М	70.0	9
341	82	70.0	64.0	М	69.5	9
342	82	70.0	64.0	М	68.5	9
343	82	70.0	64.0	F	69.0	9
344	82	70.0	64.0	F	65.0	9
345	82	70.0	64.0	F	64.0	9
346	83	70.0	63.7	М	70.0	8
347	83	70.0	63.7	М	67.0	8
348	83	70.0	63.7	М	65.5	8
349	83	70.0	63.7	F	63.7	8
350	83	70.0	63.7	F	63.2	8
351	83	70.0	63.7	F	62.5	8
352	83	70.0	63.7	F	62.2	8
353	83	70.0	63.7	F	61.0	8
354	85	70.5	63.0	М	72.5	5
355	85	70.5	63.0	М	69.0	5
356	85	70.5	63.0	М	67.0	5 5 5
357	85	70.5	63.0	F	64.5	5
358	85	70.5	63.0	F	64.0	5
359	86	70.0	63.5	М	71.0	4

360	86	70.0	63.5	М	67.5	4
361	86	70.0	63.5	F	67.5	4
362	86	70.0	63.5	F	63.5	4
363	87	70.0	63.0	M	68.0	4
364	87	70.0	63.0	М	67.0	4
365	87	70.0	63.0	F	63.7	4
366	87	70.0	63.0	F	62.0	4
367	88	70.0	63.0	М	70.0	4
368	88	70.0	63.0	M	66.5	4
369	88	70.0	63.0	F	62.0	4
				F		
370	88	70.0	63.0		61.0	4
371	89	70.5	62.0	М	72.0	8
372	89	70.5	62.0	M	70.0	8
373	89	70.5	62.0	М	69.5	8
374	89	70.5	62.0	М	69.5	8
375	89	70.5	62.0	М	68.0	8
376	89	70.5	62.0	F	65.0	8
377	89	70.5	62.0	F	64.0	8
378	89	70.5	62.0	F	63.0	8
379	90	70.3	62.7	М	70.7	7
380	90	70.3	62.7	М	69.7	7
381	90	70.3	62.7	M	69.2	7
382	90	70.3	62.7	М	65.2	7
383	90	70.3	62.7	F	64.0	7
384	90	70.3	62.7	F	63.5	7
385	90	70.3	62.7	F	63.2	7
386	91	70.5	62.0	М	72.0	3 3 3
387	91	70.5	62.0	М	72.0	3
388	91	70.5	62.0	F	60.0	3
389	92	70.0	61.0	M	71.2	2
390	92	70.0	61.0	М	67.0	2
391	93	70.0	60.0	М	67.0	4
392	93	70.0	60.0	М	64.5	4
393	93	70.0	60.0	F	65.0	4
394	93	70.0	60.0	F	63.0	4
395	94	70.0	60.0	F	65.0	2
396	94	70.0	60.0	F	65.0	2
397	95	70.0	58.5	М	71.5	3
						2
398	95	70.0	58.5	М	64.5	3
399	95	70.0	58.5	F	63.0	3
400	96	70.0	58.0	М	72.0	5
401	96	70.0	58.0	М	66.0	5
						5
402	96	70.0	58.0	F	66.0	5
403	96	70.0	58.0	F	65.0	5
404	96	70.0	58.0	F	63.0	5
405	97	69.0	68.5	М	75.0	10
406	97	69.0	68.5	М	71.0	10
407	97	69.0	68.5	М	70.0	10
408	97	69.0	68.5	F	66.0	10
409	97	69.0	68.5	F	66.0	10
105	51	5510	0013	·	0010	10

410	97	69.0	68.5	F	65.5	10
411	97	69.0	68.5	F	65.0	10
412	97	69.0	68.5	F	65.0	10
413	97	69.0	68.5	F	64.0	10
414	97	69.0	68.5	F	64.0	10
415	98	69.0	67.0	F	64.0	1
416	99	69.0	66.0	M		8
					73.0	
417	99	69.0	66.0	M	72.0	8
418	99	69.0	66.0	М	71.7	8
419	99	69.0	66.0	M	71.5	8
420	99	69.0	66.0	F	65.5	8
421	99	69.0	66.0	F	65.0	8
422	99	69.0	66.0	F	62.7	8
423	99	69.0	66.0	F	62.5	8
424	100	69.0	66.0	М	71.2	3
425	100	69.0	66.0	М	71.0	3
426	100	69.0	66.0	М	70.0	3 3 3
427	101	69.0	66.7	М	75.0	6
428	101	69.0	66.7	М	74.0	6
429	101	69.0	66.7	M	72.0	6
430	101	69.0	66.7	 М	68.5	6
431	101	69.0	66.7	M	67.0	6
431						6
	101	69.0	66.7	M	66.0	
433	102	69.0	66.0	M	70.0	6
434	102	69.0	66.0	М	68.5	6
435	102	69.0	66.0	М	68.0	6
436	102	69.0	66.0	F	65.0	6
437	102	69.0	66.0	F	63.0	6
438	102	69.0	66.0	F	62.5	6
439	103	69.0	66.5	М	73.0	5
440	103	69.0	66.5	М	71.0	5 5
441	103	69.0	66.5	М	70.5	5
442	103	69.0	66.5	М	70.5	5
443	103	69.0	66.5	F	61.0	5 5
444	104	69.5	66.5	М	70.5	4
445	104	69.5	66.5	М	67.5	4
446	104	69.5	66.5	F	64.5	4
447	104	69.5	66.5	F	64.0	4
448	105	69.0	66.5	M	71.0	6
449	105	69.0	66.5	F	68.5	6
450	105	69.0	66.5	F	67.5	6
451	105	69.0	66.5	F	66.0	6
452	105	69.0	66.5	F	63.0	6
453	105	69.0	66.5	F	63.0	6
454	106	69.5	66.0	M	71.0	7
455	106	69.5	66.0	M	71.0	7
456	106	69.5	66.0	M	70.5	7
457	106	69.5	66.0	M	70.5 70.5	7
457 458	106	69.5	66.0	F	66.5	7
456 459				F		7
473	106	69.5	66.0	ı	65.5	,

460	106	69.5	66.0	F	64.5	7
461	107	69.0	66.0	М	73.0	9
462	107	69.0	66.0	М	72.0	9
463	107	69.0	66.0	М	69.0	9
464	107	69.0	66.0	М	69.0	9
465	107	69.0	66.0	F	66.5	9
466	107	69.0	66.0	F	65.5	9
467	107	69.0	66.0	F	65.5	9
468	107	69.0	66.0	F	65.0	9
469	107	69.0	66.0	F	64.0	9
470	108	69.0	65.0	М	70.0	7
471	108	69.0	65.0	М	68.5	7
472	108	69.0	65.0	М	67.0	7
473	108	69.0	65.0	F	65.0	7
474	108	69.0	65.0	F	64.0	7
475	108	69.0	65.0	F	63.5	7
476	108	69.0	65.0	F	61.0	7
						7
477	109	69.5	64.5	M	69.7	
478	109	69.5	64.5	М	68.0	7
479	109	69.5	64.5	М	60.0	7
480	109	69.5	64.5	F	65.2	7
481	109	69.5	64.5	F	64.5	7
482	109	69.5	64.5	F	63.7	7
483	109	69.5	64.5	F	60.0	7
484	110	69.2	64.0	М	71.7	4
485	110	69.2	64.0	М	66.5	4
486	110	69.2	64.0	F	65.0	4
487	110	69.2	64.0	F	63.5	4
488						
	112	69.0	63.0	M	69.0	3
489	112	69.0	63.0	F	67.5	3
490	112	69.0	63.0	F	63.5	3
491	113	69.0	63.0	М	72.0	1
492	114	69.0	63.0	М	73.0	6
493	114	69.0	63.0	М	70.0	6
494	114	69.0	63.0	М	70.0	6
495	114	69.0	63.0	М	64.0	6
496	114	69.0	63.0	F	66.0	6
497	114	69.0	63.0	F	62.0	6
498	115	69.0	63.5	М	70.5	7
499	115	69.0	63.5	М	67.0	7
500	115	69.0	63.5	M	66.0	7
501	115	69.0	63.5	F	65.0	7
502	115	69.0	63.5	F	63.0	7
503	115	69.0	63.5	F	62.0	7
504	115	69.0	63.5	F	61.0	7
505	116	69.0	63.5	М	70.5	3
506	116	69.0	63.5	F	63.7	3
507	116	69.0	63.5	F	63.0	3
508	117	69.7	62.0	F	62.5	1
509	118	69.5	62.0	M	73.0	3
509	110	0913	02.0	1.1	13.0	J

510	118	69.5	62.0	М	72.0	3
511	118	69.5	62.0	M	69.0	3 3
512	119	69.0		M	73.0	5
			62.0			5
513	119	69.0	62.0	М	71.0	5
514	119	69.0	62.0	М	71.0	5
515	119	69.0	62.0	M	69.0	5
516	119	69.0	62.0	F	63.0	5
517	121	69.0	62.5	М	71.0	8
518	121	69.0	62.5	М	70.0	8
519	121	69.0	62.5	М	70.0	8
520	121	69.0	62.5	М	69.0	8
521	121	69.0	62.5	F	63.5	8
522	121	69.0	62.5	F	62.5	8
523	121	69.0	62.5	F	62.5	8
524	121	69.0	62.5	F	62.0	8
525	122	69.0	62.0	M	72.0	4
526	122	69.0	62.0	M	68.0	4
527	122	69.0	62.0	F	66.0	4
528	122	69.0	62.0	F	66.0	4
529	123	69.5	61.0	M	70.0	5
530	123	69.5	61.0	M	69.5	5
531	123	69.5	61.0	M	69.0	5
532	123	69.5	61.0	F	63.0	5
533	123	69.5	61.0	r F	62.0	5
534	123	69.0	61.0	M	68.0	9
535	124	69.0		M	68.0	9
536	124	69.0	61.0			
			61.0	М	67 . 5	9
537	124	69.0	61.0	M	64.0	9
538	124	69.0	61.0	М	63.0	9
539	124	69.0	61.0	M	63.0	9
540	124	69.0	61.0	F	63.5	9
541	124	69.0	61.0	F	62.0	9
542	124	69.0	61.0	F	62.0	9
543	125	69.0	60.0	M	70.5	3
544	125	69.0	60.0	F	68.0	3
545	125	69.0	60.0	F	62.5	3
546	126	69.0	60.0	М	69.0	4
547	126	69.0	60.0	M	66.0	4
548	126	69.0	60.0	F	61.7	4
549	126	69.0	60.0	F	60.5	4
550	127	69.0	60.5	М	69.5	1
551	128	68.7	70.5	М	71.0	2
552	128	68.7	70.5	F	61.7	2
553	129	68.5	67.0	М	73.0	2 3 3
554	129	68.5	67.0	М	71.0	3
555	129	68.5	67.0	F	67.0	3
556	130	68.5	66.5	М	70.0	11
557	130	68.5	66.5	М	69.0	11
558	130	68.5	66.5	М	69.0	11
559	130	68.5	66.5	М	68.7	11

560	130	68.5	66.5	М	68.5	11
561	130	68.5	66.5	M	68.5	11
562	130	68.5	66.5	M	68.0	11
563	130	68.5	66.5	М	68.0	11
564	130	68.5	66.5	M	68.0	11
565	130	68.5	66.5	F	63.2	11
566	131	68.0	65.0	М	67.5	2
567	131	68.0	65.0	М	66.0	2
568	132	68.0	65.5	М	66.0	2
569	132	68.0	65.5	F	64.0	2
570	133	68.0	65.5	М	71.7	7
571	133	68.0	65.5	M	71.5	7
572	133	68.0	65.5	M	70.7	7
573	133	68.0	65.5	 М	65.5	7
574	133	68.0	65.5	F	66.5	7
		68.0		, F		7
575	133		65 . 5		65.2	
576	133	68.0	65.5	F	61.5	7
577	134	68.0	65.0	М	72.0	4
578	134	68.0	65.0	М	72.0	4
579	134	68.0	65.0	F	68.0	4
580	134	68.0	65.0	F	66.0	4
581	135	68.5	65.0	М	69.2	8
582	135	68.5	65.0	М	68.0	8
583	135	68.5	65.0	М	66.0	8
584	135	68.5	65.0	М	66.0	8
585	135	68.5	65.0	F	62.0	8
586	135	68.5	65.0	F	61.5	8
587	135	68.5	65.0	F	61.0	8
588	135	68.5	65.0	F	60.0	8
589	136	68.0	64.0	M	71.0	10
	136	68.0	64.0	M		
590					68.0	10
591	136	68.0	64.0	М	68.0	10
592	136	68.0	64.0	M	67.0	10
593	136	68.0	64.0	F	65.0	10
594	136	68.0	64.0	F	64.0	10
595	136	68.0	64.0	F	63.0	10
596	136	68.0	64.0	F	63.0	10
597	136	68.0	64.0	F	62.0	10
598	136	68.0	64.0	F	61.0	10
599	137	68.0	64.0	М	66.0	4
600	137	68.0	64.0	М	63.0	4
601	137	68.0	64.0	F	65.5	4
602	137	68.0	64.0	F	62.0	4
603	138	68.0	64.0	М	71.2	5
604	138	68.0	64.0	М	71.2	5
605	138	68.0	64.0	M	69.0	5
	138				68.5	5
606		68.0	64.0	M		2
607	138	68.0	64.0	F	62.5	5
608	139	68.0	64.5	F	62.0	1
609	140	68.0	64.0	М	69.0	10

610	140	68.0	64.0	М	67.0	10
611	140	68.0	64.0	М	66.0	10
612	140	68.0	64.0	F	66.0	10
613	140	68.0	64.0	F	66.0	10
614	140	68.0	64.0	F	65.0	10
615	140	68.0	64.0	F	65.0	10
616	140	68.0	64.0	F	65.0	10
617	140	68.0	64.0	F	64.0	10
618	140	68.0	64.0	F	63.0	10
619	141	68.0	63.0	М	70.5	8
620	141	68.0	63.0	М	70.0	8
621	141	68.0	63.0	М	68.0	8
622	141	68.0	63.0	М	66.0	8
623	141	68.0	63.0	М	66.0	8
624	141	68.0	63.0	F	66.0	8
625	141	68.0	63.0	F	62.0	8
626	141	68.0	63.0	F	61.5	8
627	142	68.5	63.5	М	73.5	4
628	142	68.5	63.5	М	70.0	4
629	142	68.5	63.5	М	69.5	4
630	142	68.5	63.5	F	65.5	4
631	143	68.0	63.0	М	67.0	1
632	144	68.0	63.0	М	70.0	4
633	144	68.0	63.0	М	68.0	4
634	144	68.0	63.0	F	64.5	4
635	144	68.0	63.0	F	64.0	4
636	145	68.0	63.0	M	71.0	8
637	145	68.0	63.0	М	68.0	8
638	145	68.0	63.0	М	66.0	8
639	145	68.0	63.0	М	65.5	8
640	145	68.0	63.0	М	65.0	8
641	145	68.0	63.0	F	63.0	8
642	145	68.0	63.0	F	62.0	8
643	145	68.0	63.0	F	62.0	8
644	146	68.0	63.0	M	67.0	6
645	146	68.0	63.0	М	67.0	6
646	146	68.0	63.0	М	66.0	6
647	146	68.0	63.0	F	64.0	6
648	146	68.0	63.0	F	63.5	6
649	146	68.0	63.0	F	61.0	6
650	147	68.5	63.5	М	68.2	1
651	148	68.0	63.0	M	70.0	1
652	149	68.2	63.5	M	70.0	5
653	149	68.2	63.5	M	69.0	5
654	149	68.2	63.5	M	67.0	5
655	149	68.2	63.5	M	65.5	5
656	149	68.2	63.5	F	64.5	5 5 5 5
657	150	68.0	62.5	M	68.5	1
658	151	68.7	62.0	M	67.7	2
659	151	68.7	62.0	F	61.7	2
000	171	00.7	02.0	'	01./	_

660 661 662	152 153 153	68.0 68.0	62.5 61.0 61.0	M M M	66.5 68.5 68.0	1 5 5
663 664 665	153 153 153	68.0 68.0 68.0	61.0 61.0	M F F	64.0 63.5 63.0	5 5 5
666	154	68.0	60.2	M	66.7	1
667	155	68.0	60.0	M	64.0	7
668	155	68.0	60.0	F	61.0	7
669 670	155 155	68.0 68.0	60.0	F F	61.0 60.0	, 7 7
671 672	155 155	68.0 68.0	60.0	F	60.0 60.0	7 7
673	155	68.0	60.0	F	56.0	7
674	156	68.0	60.0	M	67.5	4
675	156	68.0	60.0	M	67.0	4
676 677	156 156	68.0 68.0	60.0	M F	66.5 60.0	4
678	157	68.5	59.0	M	69.0	1
679	158	68.0	59.0	M	68.0	10
680	158	68.0	59.0	M	65.0	10
681	158	68.0	59.0	M	64.7	10
682	158	68.0	59.0	M	64.0	10
683	158	68.0	59.0	M	64.0	10
684	158	68.0	59.0	M	63.0	10
685	158	68.0	59.0	F	65.0	10
686	158	68.0	59.0	F	65.0	10
687	158	68.0	59.0	F	62.0	10
688	158	68.0	59.0	F	61.0	10
689	159	67.0	66.2	M	72.7	5
690	159	67.0	66.2	M	72.7	5
691	159	67.0	66.2	M	71.5	5
692	159	67.0	66.2	F	65.5	5
693	159	67.0	66.2	F	63.5	5
694	160	67.0	66.5	M	71.0	1
695	162	67.0	65.0	M	69.7	6
696 697 698	162 162	67.0 67.0 67.0	65.0 65.0	M F	67.5 65.5	6 6
699 700	162 162 162	67.0 67.0	65.0 65.0 65.0	F F F	65.0 64.5 63.5	6 6 6
701	163	67.0	65.5	M	70.0	5
702	163	67.0	65.5	M	69.0	5
703	163	67.0	65.5	F	65.5	5
704	163	67.0	65.5	F	65.5	5
705	163	67.0	65.5	F	63.0	5
706	164	67.0	65.5	M	70.0	4
707	164	67.0	65.5	M	67.7	4
708	164	67.0	65.5	F	63.0	4
709	164	67.0	65.5	F	60.0	4

710 711 712	165 165 165	67.0 67.0 67.0	65.0 65.0 65.0	M F F	65.0 62.0 62.0	3 3 3
713	166	67.5	65.0	М	71.0	11
714	166	67.5	65.0	М	69.0	11
715	166	67.5	65.0	F	64.0	11
716	166	67 . 5	65.0	F	64.0	11
717	166	67.5	65.0	F	63.0	11
718 719	166 166	67.5 67.5	65.0 65.0	F F	63.0 63.0	11 11
720	166	67 . 5	65.0	r F	63.0	11
721	166	67 . 5	65.0	F	63.0	11
722	166	67.5	65.0	F	62.5	11
723	166	67.5	65.0	F	62.0	11
724	167	67.0	64.0	М	71.5	4
725	167	67.0	64.0	М	70.0	4
726	167	67.0	64.0	М	67.0	4
727	167	67 . 0	64.0	М	67 . 0	4
728 729	168 168	67.0 67.0	63.5 63.5	M M	71.0 70.2	8 8
730	168	67.0	63.5	M	69.2	8
731	168	67.0	63.5	М	68.5	8
732	168	67.0	63.5	M	68.0	8
733	168	67.0	63.5	М	67.0	8
734	168	67.0	63.5	M	65.5	8
735	168	67.0	63.5	F	63.5	8
736	169	67.0	63.0	М	69.0	3
737	169	67.0	63.0	M	68.0	3 3 3
738	169	67.0	63.0	F	63.0	3
739 740	170 170	67.5 67.5	62.0 62.0	M M	70.0 69.5	5 5
740	170	67 . 5	62.0	M	69.0	5
742	170	67.5	62.0	М	68.5	5
743	170	67 . 5	62.0	F	66.0	5
744	171	67.0	61.0	М	67.0	1
745	172	66.0	67.0	М	70.5	8
746	172	66.0	67.0	М	70.5	8
747	172	66.0	67.0	М	67.0	8
748	172	66.0	67.0	M	66.0	8
749 750	172	66.0	67.0	M F	66.0	8
750 751	172 172	66.0 66.0	67.0 67.0	F	62.0 62.0	8 8
752	172	66.0	67.0	F	61.5	8
753	173	66.0	67.0	M	72.0	9
754	173	66.0	67.0	М	65.0	9
755	173	66.0	67.0	М	65.0	9
756	173	66.0	67.0	F	67.0	9
757	173	66.0	67 . 0	F	64.0	9
758 750	173 173	66.0	67 . 0	F	64.0	9
759	173	66.0	67.0	F	62.0	9

760	173	66.0	67.0	F	60.0	9
761	173	66.0	67.0	F	60.0	9
762	174	66.0	66.0	М	66.0	5
763	174			М		
		66.0	66.0		65.0	5
764	174	66.0	66.0	F	67.0	5
765	174	66.0	66.0	F	66.5	5
				F		5
766	174	66.0	66.0		65.5	
767	175	66.0	66.0	М	72.0	6
768	175	66.0	66.0	М	68.0	6
769	175	66.0	66.0	F	66.0	6
770	175	66.0	66.0	F	65.0	6
771	175	66.0	66.0	F	62.0	6
772	175	66.0	66.0	F	61.0	6
773	176	66.5	65.0	М	68.7	8
774	176	66.5	65.0	М	68.5	8
775	176	66.5	65.0	М	66.5	8
	176			M		8
776		66.5	65.0		64.5	
777	176	66.5	65.0	F	62.5	8
778	176	66.5	65.0	F	60.5	8
779	176	66.5	65.0	F	60.5	8
780	176	66.5	65.0	F	57.5	8
781	177	66.0	65.5	М	72.0	5
782	177	66.0	65.5	М	71.0	5
783	177	66.0	65.5	М	67.0	5
784	177	66.0	65.5	F	66.0	5
785	177	66.0	65.5	F	65.0	5
786	178	66.0	63.0	M	70.0	1
787	179	66.0	63.5	F	64.5	2
788	179	66.0	63.5	F	62.0	2
789	180	66.5	63.0	М	67.2	6
790						
	180	66.5	63.0	М	67.0	6
791	180	66.5	63.0	М	65.0	6
792	180	66.5	63.0	F	65.0	6
793	180	66.5	63.0	F	65.0	6
794	180	66.5	63.0	F	63.0	6
795	181	66.5	62.5	М	70.0	7
796	181	66.5	62.5	М	68.0	7
797	181	66.5	62.5	F	63.5	7
798	181	66.5	62.5	F	62.5	7
799	181	66.5	62.5	F	62.5	7
800	181	66.5	62.5	F	62.5	7
801	181	66.5	62.5	F	62.5	7
802	182	66.0	61.5	М	70.0	1
803	183	66.0	60.0	М	68.0	4
					67.0	4
804	183	66.0	60.0	М		
805	183	66.0	60.0	М	65.0	4
806	183	66.0	60.0	F	60.0	4
807	184	66.0	60.0	М	65.0	1
808	185	66.0	59.0	М	68.0	15
809	185	66.0	59.0	М	67.0	15

810	185	66.0	59.0	М	66.5	15
811	185	66.0	59.0	М	66.0	15
812	185	66.0	59.0	М	65.7	15
813	185	66.0	59.0	М	65.5	15
814	185	66.0	59.0	М	65.0	15
815	185	66.0	59.0	F	65.0	15
816	185	66.0	59.0	F	64.0	15
817	185	66.0	59.0	F	63.0	15
818	185	66.0	59.0	F	62.0	15
819	185	66.0	59.0	F	61.0	15
820	185	66.0	59.0	F	60.0	15
821	185	66.0	59.0	F.	58.0	15
822	185	66.0	59.0	F	57.0	15
823	186	65.0	67.0	M	66.5	4
824	186	65.0	67.0	М	66.0	4
825	186	65.0	67 . 0	M	66.0	4
	186	65.0	67.0	F	65.0	4
826				F		
827	187	65.0	67 . 0		63.0	1
828	188	65.0	66.0	М	63.0	4
829	188	65.0	66.0	F	63.0	4
830	188	65.0	66.0	F	63.0	4
831	188	65.0	66.0	F	60.0	4
832	190	65.0	65.0	М	69.0	9
833	190	65.0	65.0	М	68.0	9
834	190	65.0	65.0	M	68.0	9
835	190	65.0	65.0	F	65.0	9
836	190	65.0	65.0	F	65.0	9
837	190	65.0	65.0	F	62.0	9
838	190	65.0	65.0	F	62.0	9
839	190	65.0	65.0	F	61.0	9
840	190	65.0	65.0	F	59.0	9
841	191	65.0	65.5	М	70.7	2
842	191	65.0	65.5	F	65.5	2
843	192	65.0	65.0	М	69.2	6
844	192	65.0	65.0	М	69.0	6
845	192	65.0	65.0	М	68.0	6
846	192	65.0	65.0	М	67.7	6
847	192	65.0	65.0	F	64.5	6
848	192	65.0	65.0	F	60.5	6
849	193	65.0	64.0	М	67.0	6
850	193	65.0	64.0	М	67.0	6
851	193	65.0	64.0	F	64.0	6
852	193	65.0	64.0	F	64.0	6
853	193	65.0	64.0	F	62.5	6
854	193	65.0	64.0	F	60.5	6
855	194	65.0	63.0	М	70.0	2
856	194	65.0	63.0	F	63.0	2
857	195	65.0	63.0	М	66.0	3
858	195	65.0	63.0	М	66.0	2 3 3
859	195	65.0	63.0	F	63.0	3

860	196	65.5	63.0	М	71.0	4
861	196	65.5	63.0	М	71.0	4
862	196	65.5	63.0	M	69.0	4
863	196	65.5	63.0	F	63.5	4
864	197	65.5	60.0	M	68.0	5
865	197	65.5	60.0	М	68.0	5
866	197	65.5	60.0	М	67.0	5
						5
867	197	65.5	60.0	M	67.0	5
868	197	65.5	60.0	F	62.0	5
869	198	64.0	64.0	M	71.5	7
870	198	64.0	64.0	М	68.0	7
871	198	64.0	64.0	F	65.5	7
872	198	64.0	64.0	F	64.0	7
873	198	64.0	64.0	F	62.0	7
874	198	64.0	64.0	F	62.0	7
875	198	64.0	64.0	F	61.0	7
876	199	64.0	64.0	М	70.5	7
877	199	64.0	64.0	М	68.0	7
878	199	64.0	64.0	F	67.0	7
879	199	64.0	64.0	F	65.0	7
880	199	64.0	64.0	F	64.0	7
881	199	64.0	64.0	F	64.0	7
882	199	64.0	64.0	F	60.0	7
883	200	64.0	63.0	М	64.5	1
884	201	64.0	60.0	М	66.0	2
885	201	64.0	60.0	F	60.0	2
						3
886	203	62.0	66.0	M	64.0	2
887	203	62.0	66.0	F	62.0	3 3 2
888	203	62.0	66.0	F	61.0	3
889	204	62.5	63.0	М	66.5	2
890	204	62.5	63.0	F	57.0	2
891	136A	68.5	65.0	М	72.0	8
892	136A	68.5	65.0	М	70.5	8
893	136A	68.5	65.0	M	68.7	8
894	136A	68.5	65.0	М	68.5	8
895	136A	68.5	65.0	М	67.7	8
896	136A	68.5	65.0	F	64.0	8
897	136A	68.5	65.0	F	63.5	8
898	136A	68.5	65.0	F	63.0	8
				lton.csv		
, , ,				Gender		Kids
1	_					
1	1	78 . 5	67.0	M	73.2	4
2	1	78.5	67.0	F	69.2	4
3	1	78.5	67.0	F	69.0	4
4	1	78 . 5	67.0	F	69.0	4
5	2	75.5	66.5	М	73.5	4
6	2	75.5	66.5	М	72.5	4
7	2	75 . 5	66.5	F	65.5	4
8	2	75 . 5	66.5	F	65.5	4
9	3	75.0	64.0	М	71.0	2

10 11 12 13 14 15 16	3 4 4 4 4 5 5	75.0 75.0 75.0 75.0 75.0 75.0 75.0	64.0 64.0 64.0 64.0 64.0 58.5	F M F F M	68.0 70.5 68.5 67.0 64.5 63.0 72.0	2 5 5 5 5 6 6
18 19 20 21 22 23 24 25	5 5 5 6 7 7	75.0 75.0 75.0 75.0 74.0 74.0 74.0	58.5 58.5 58.5 68.0 68.0 68.0 68.0	M F F F M M	68.0 66.5 62.5 69.5 76.5 74.0 73.0	6 6 6 1 6 6
26 27 28 29 30 31 32	7 7 7 8 8 8	74.0 74.0 74.0 74.0 74.0 74.0 74.0	68.0 68.0 68.0 66.5 66.5 66.5	M F F F F	73.0 70.5 64.0 70.5 68.0 66.0	6 6 6 3 3
33 34 35 36 37 38 39	10 11 11 11 11 11	74.0 74.0 74.0 74.0 74.0 74.0 74.0	65.5 62.0 62.0 62.0 62.0 62.0 62.0	F M M F F F	65.5 74.0 70.0 68.0 67.0 67.0	1 8 8 8 8 8
40 41 42 43 44 45 46	11 11 12 14 14 15	74.0 74.0 74.0 73.0 73.0 73.0 73.0	62.0 62.0 61.0 67.0 67.0 66.5	F F M M M	63.5 63.0 65.0 68.0 67.0 71.0	8 8 1 2 2 3 3
47 48 49 50 51 52 53	15 16 16 16 16 16 16	73.0 73.0 73.0 73.0 73.0 73.0 73.0	66.5 65.0 65.0 65.0 65.0 65.0	F M M M M M	66.7 72.0 70.5 70.2 70.2 69.2 68.7	3 9 9 9 9 9
54 55 56 57 58 59	16 16 16 17 17	73.0 73.0 73.0 73.0 73.0 73.0	65.0 65.0 65.0 64.5 64.5	F F M M	66.5 64.5 63.5 74.0 73.0 71.5	9 9 9 6 6

TOO	60 61 62 63 64 65 66 67 77 77 77 77 78 81 82 83 84 85 88 99 91 92 93 94 95 96 97 98 99 100 100 100 100 100 100 100 100 100	17 17 17 18 18 18 19 20 20 20 20 20 21 21 21 22 22 23 23 23 23 23 23 24 25 26 26 26 27 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	73.0 73.0 73.0 73.0 73.0 73.0 72.7 72.7 72.0 72.0 72.0 72.0 72.0 72	64.5 64.5 64.0 64.0 64.0 64.0 65.0 69.0 69.0 69.0 69.0 69.0 69.0 65.0 65.0 65.0 65.0 65.0 63.0 63.0 63.0 63.0 63.0 63.0 63.0 63	M F F F F F M M F F F F M M M F F F F F F M M F F M M F F F	62.5 66.3 66.3 66.0 67.3 67.0 68.0 67.0 67.0 67.0 67.0 67.0 67.0 67.0 67	6663331888888883333377777122555533366666
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 101 102	28 28 28 28	72.0 72.0 72.0 72.0	63.0 63.0 63.0 63.0	M F F	67.0 70.5 70.0	6 6 6

110	21	72 F	62.0	М	70.0	6
110	31	72.5	62.0	М	70.0	6
111	31	72.5	62.0	М	70.0	6
112	31	72.5	62.0	F	66.0	6
113	31	72.5	62.0	F	65.0	6
114	31	72.5	62.0	F	65.0	6
115	32	72.0	62.0	М	74.0	5
116	32	72.0	62.0	М	72.0	5
117	32	72.0	62.0	М	69.0	5
						-
118	32	72.0	62.0	F	67.5	5
119	32	72.0	62.0	F	63.5	5
120	33	72.0	62.0	М	72.0	5
121	33	72.0	62.0	М	71.5	5
122	33	72.0	62.0	М	71.5	5
						5
123	33	72.0	62.0	М	70.0	5
124	33	72.0	62.0	F	68.0	5
125	34	72.0	61.0	F	65.7	1
126	35	71.0	69.0	М	78.0	5
						_
127	35	71.0	69.0	М	74.0	5
128	35	71.0	69.0	М	73.0	5
						_
129	35	71.0	69.0	М	72.0	5
130	35	71.0	69.0	F	67.0	5
131	36	71.0	67.0	М	73.2	4
132	36	71.0	67.0	М	73.0	4
133	36	71.0	67.0	М	69.0	4
134	36	71.0	67.0	F	67.0	4
135	37	71.0		М	70.0	4
			66.0			
136	37	71.0	66.0	F	67.0	4
137	37	71.0	66.0	F	67.0	4
138	37	71.0	66.0	F	66.5	4
139	38	71.0	66.0	М	70.0	6
140	38	71.0	66.0	М	69.0	6
141	38	71.0	66.0	М	68.5	6
142	38	71.0	66.0	F	66.0	6
143	38	71.0	66.0	F	64.5	6
144	38	71.0	66.0	F	63.0	6
145	39	71.0	66.0	М	71.0	2
146	39	71.0	66.0	F	67.0	2
						_
147	40	71.0	66.0	М	76.0	5
148	40	71.0	66.0	М	72.0	5
149	40			М		5
		71.0	66.0		71.0	5
150	40	71.0	66.0	М	66.0	5
151	40	71.0	66.0	F	66.0	5
152	41	71.7	65.5	М	70.5	1
153	42	71.0	65.5	М	72.0	6
154	42	71.0	65.5	М	72.0	6
155	42	71.0	65.5	М	71.0	6
156	42	71.0	65.5	М	69.0	6
157	42	71.0	65.5	F	66.0	6
158	42	71.0	65.5	F	65.0	6
159	43	71.5	65.5	М	73.0	2

160	43	71.5	65.5	F	65.2	2
161	44	71.5	65.0	М	68.5	2
162	44	71.5	65.0	М	67.7	2
163	45	71.0	65.0	М	68.0	3
						2
164	45	71.0	65.0	М	68.0	3
165	45	71.0	65.0	F	62.0	3
166	46	71.0	64.0	F	68.0	8
167	46	71.0	64.0	F	68.0	8
168	46	71.0	64.0	F	67.5	8
169	46	71.0	64.0	F	66.5	8
170	46	71.0	64.0	F	66.5	8
171	46	71.0	64.0	F	66.0	8
172	46	71.0	64.0	F	65.5	8
173	46	71.0	64.0	F	65.0	8
174	47	71.7	64.5	М	72.0	4
		71 7				
175	47	71.7	64.5	М	71.0	4
176	47	71.7	64.5	М	70.5	4
177	47	71.7	64.5	F	67.0	4
178	48	71.0	64.0	М	68.0	
						3 3
179	48	71.0	64.0	М	68.0	2
180	48	71.0	64.0	М	68.0	3
181	49	71.5	64.5	М	72.0	7
182	49	71.5	64.5	М	71.0	7
183	49	71.5	64.5	M	70.0	7
184	49	71.5	64.5	F	66.0	7
185	49	71.5	64.5	F	64.5	7
186	49	71.5	64.5	F	64.5	7
187	49	71.5	64.5	F	62.0	7
188	51	71.2	63.0	F	67.5	2
189	51	71.2	63.0	F	64.5	2
190	52	71.0	63.5	М	71.0	5
191	52	71.0	63.5	М	67.0	5
192	52	71.0		F	66.0	5
			63.5			
193	52	71.0	63.5	F	65.0	5
194	52	71.0	63.5	F	63.5	5
195	53	71.0	63.0	М	71.0	9
196	53	71.0	63.0	М	70.0	9
197	53	71.0	63.0	М	70.0	9
198	53	71.0	63.0	М	64.0	9
199	53	71.0	63.0	F	65.0	9
200	53	71.0	63.0	F	65.0	9
	53			F		
201		71.0	63.0		64.0	9
202	53	71.0	63.0	F	63.0	9
203	53	71.0	63.0	F	63.0	9
204	54	71.0	63.0	М	71.0	4
205	54	71.0	63.0	M	71.0	4
206	54	71.0	63.0	M	70.0	4
207	54	71.0	63.0	F	63.5	4
208	55	71.0	62.0	М	71.0	5
209	55	71.0	62.0	М	70.0	5
_03	33	, 110	0210		, 010	3

210	55	71.0	62.0	F	64.5	5
211	55	71.0	62.0	F	62.5	5
212	55	71.0	62.0	F	61.5	5
213	56	71.0	62.0	М	72.0	5
214	56	71.0	62.0	М	70.5	5
215	56	71.0	62.0	М	70.5	5
216	56	71.0	62.0	F	64.5	5
217	56	71.0	62.0	F	60.0	5
218	57	71.0	62.5	М	70.0	5
219	57	71.0	62.5	F	64.0	5
220	57	71.0	62.5	F	64.0	5
						5
221	57	71.0	62.5	F	64.0	5
222	57	71.0	62.5	F	62.5	5
223	58	71.0	62.0	М	70.5	7
224	58	71.0	62.0	М	70.0	7
225	58	71.0	62.0	М	69.0	7
226	58	71.0	62.0	М	69.0	7
227	58	71.0	62.0	М	66.0	7
228	58	71.0	62.0	F	64.5	7
229	58	71.0		F		7
			62.0		64.0	
230	59	71.0	61.0	F	62.0	1
231	60	71.0	58.0	М	71.5	2
232	60	71.0	58.0	М	69.0	2
233	61	70.0	69.0	М	71.0	4
234	61	70.0	69.0	М	70.0	4
235	61	70.0	69.0	М	69.0	4
236	61	70.0	69.0	F	69.0	4
237	62	70.0	69.0	М	70.0	6
238	62	70.0	69.0	М	68.7	6
239	62	70.0	69.0	F	68.0	6
240	62	70.0	69.0	F	66.0	6
241	62	70.0	69.0	F	64.0	6
242	62	70.0	69.0	F	62.0	6
243	63	70.0	68.0	M	75.0	1
						5
244	64	70.0	67.0	М	70.0	_
245	64	70.0	67.0	М	69.0	5
246	64	70.0	67.0	F	66.0	5
247	64	70.0	67.0	F	64.0	5
248	64	70.0	67.0	F	60.0	5
249	65	70.0	67.0	F	67.5	1
250	66	70.0	66.5	М	73.0	11
251	66	70.0	66.5	М	72.0	11
252	66	70.0	66.5	М	72.0	11
253	66	70.0	66.5	M	66.5	11
254	66	70.0	66.5	F	69.2	11
255	66	70.0	66.5	F	67.2	11
256	66	70.0	66.5	F	66.5	11
257	66	70.0	66.5	F	66.0	11
258	66	70.0	66.5	F	66.0	11
259	66	70.0	66.5	F	64.2	11

260	66	70 0	66 5	г	62.7	11	
260	66	70.0	66.5	F	63.7	11	
261	67	70.5	65.0	М	72.0	4	
262	67	70.5	65.0	M	70.2	4	
263	67	70.5	65.0	М	69.0	4	
264	67	70.5	65.0	M	68.5	4	
265	68	70.5	65.0	F	68.0	5	
266	68	70.5	65.0	F	65.0	5	
267	68	70.5	65.0	F	61.5	5	
268	68	70.5	65.0	F	61.0	5	
269	68	70.5	65.0	F	61.0	5	
270	69	70.0	65.0	М	73.0	8	
271	69	70.0	65.0	М	72.0	8	
272	69	70.0	65.0	М	70.5	8	
273	69	70.0	65.0	М	65.0	8	
274	69	70.0	65.0	М	65.0	8	
275	69	70.0	65.0	F	64.5	8	
276	69	70.0	65.0	F	63.0	8	
277	69	70.0	65.0	F	62.0	8	
278	70	70.0	65.0	М	67.0	5	
279	70	70.0	65.0	M	65.0	5	
280	70	70.0	65.0	F	64.5	5	
281	70 70	70.0	65.0	F	62.5	5	
282	70 70	70.0		F	62.5	5	
			65.0				
283	71	70.0	65.0	M	70.0	6	
284	71	70.0	65.0	М	70.0	6	
285	71	70.0	65.0	F	67.0	6	
286	71	70.0	65.0	F	65.0	6	
287	71	70.0	65.0	F	65.0	6	
288	71	70.0	65.0	F	63.0	6	
289	72	70.0	65.0	М	79.0	7	
290	72	70.0	65.0	М	75.0	7	
291	72	70.0	65.0	М	71.0	7	
292	72	70.0	65.0	F	69.0	7	
293	72	70.0	65.0	F	67.0	7	
294	72	70.0	65.0	F	65.7	7	
295	72	70.0	65.0	F	62.0	7	
296	73	70.0	65.0	М	73.0	3	
297	73	70.0	65.0	М	72.5	3	
298	73	70.0	65.0	F	65.0	3 3	
299	74	70.0	65.0	М	69.0	2	
300	74	70.0	65.0	М	69.0	2	
301	75	70.0	64.7	М	72.0	7	
302	75	70.0	64.7	М	70.0	7	
303	75	70.0	64.7	M	68.7	7	
304	75	70.0	64.7	F	66.5	7	
305	75 75	70.0	64.7	F	65.5	7	
306	75 75	70.0	64.7	F	64.7	7	
307	75 75	70.0	64.7	F	64.5	7	
308	75 76	70.0	64.0	M	70.7	7	
309	76 76	70.0 70.0	64.0	M	70.7 70.0	7	
פשכ	70	/ U . U	U4 • U	ľ	/U.U	,	

310	76	70.0	64.0	М	68.0	7
311	76	70.0	64.0	М	67.0	7
312	76	70.0	64.0	М	66.0	7
313	76	70.0	64.0	М	65.0	7
314	76	70.0	64.0	F	67.0	7
315	77	70.0	64.0	М	70.0	4
316	77	70.0	64.0	М	68.0	4
317	77	70.0	64.0	М	66.7	4
318	77	70.0	64.0	F	65.5	4
319	78	70.0	64.2	М	72.0	5
320	78	70.0	64.2	М	70.0	5
321	78	70.0	64.2	F	62.5	5
322	78	70.0	64.2	F	61.2	5
323	78	70.0	64.2	F	60.1	5
324	79	70.5	64.0	М	74.0	8
325	79	70.5	64.0	М	69.5	8
326	79	70.5	64.0	М	69.0	8
327	79	70.5	64.0	М	68.0	8
328	79	70.5	64.0	М	68.0	8
329	79	70.5	64.0	М	68.0	8
330	79	70.5	64.0	F	65.5	8
331	79	70.5	64.0	F	65.0	8
332	80	70.5	64.5	F	60.0	1
333	81	70.0	64.0	М	68.0	4
334	81	70.0	64.0	F	65.0	4
335	81	70.0	64.0	F	64.0	4
336	81	70.0	64.0	F	62.0	4
337	82	70.0	64.0	М	71.0	9
338	82	70.0	64.0	М	70.0	9
339	82	70.0	64.0	М	70.0	9
340	82	70.0	64.0	М	70.0	9
341	82	70.0	64.0	М	69.5	9
342	82	70.0	64.0	М	68.5	9
343	82	70.0	64.0	F	69.0	9
344	82	70.0	64.0	F	65.0	9
345	82	70.0	64.0	F	64.0	9
346	83	70.0	63.7	М	70.0	8
347	83	70.0	63.7	М	67.0	8
348	83	70.0	63.7	М	65.5	8
349	83	70.0	63.7	F	63.7	8
350	83	70.0	63.7	F	63.2	8
351	83	70.0	63.7	F	62.5	8
352	83	70.0	63.7	F	62.2	8
353	83	70.0	63.7	F	61.0	8
354	85	70.5	63.0	М	72.5	5
355	85	70.5	63.0	М	69.0	5
356	85	70.5	63.0	М	67.0	5 5 5
357	85	70.5	63.0	F	64.5	5
358	85	70.5	63.0	F	64.0	5
359	86	70.0	63.5	М	71.0	4

360	86	70.0	63.5	М	67.5	4
361	86	70.0	63.5	F	67.5	4
362	86	70.0	63.5	F	63.5	4
363	87	70.0	63.0	M	68.0	4
364	87	70.0	63.0	М	67.0	4
365	87	70.0	63.0	F	63.7	4
366	87	70.0	63.0	F	62.0	4
367	88	70.0	63.0	М	70.0	4
368	88	70.0	63.0	М	66.5	4
369	88	70.0	63.0	F	62.0	4
370	88	70.0	63.0	F	61.0	4
371	89	70.5	62.0	М	72.0	8
372	89	70.5	62.0	М	70.0	8
373	89	70.5	62.0	М	69.5	8
374	89	70.5	62.0	М	69.5	8
375	89	70.5	62.0	М	68.0	8
376	89	70.5	62.0	F	65.0	8
377	89	70.5	62.0	F	64.0	8
378	89	70.5	62.0	F	63.0	8
379	90	70.3	62.7	М	70.7	7
380	90	70.3	62.7	М	69.7	7
381	90	70.3	62.7	М	69.2	7
382	90	70.3	62.7	М	65.2	7
383	90	70.3	62.7	F	64.0	7
384	90	70.3	62.7	F	63.5	7
385	90	70.3	62.7	F	63.2	7
386	91	70.5	62.0	М	72.0	3
387	91	70.5	62.0	М	72.0	3 3 3
388	91	70.5	62.0	F	60.0	3
						2
389	92	70.0	61.0	М	71.2	2
390	92	70.0	61.0	М	67.0	2
391	93	70.0	60.0	М	67.0	4
392	93	70.0	60.0	М	64.5	4
393	93	70.0	60.0	F	65.0	4
394	93	70.0	60.0	F	63.0	4
395	94	70.0	60.0	F	65.0	2
396	94	70.0	60.0	F	65.0	
						2
397	95	70.0	58.5	М	71.5	3
398	95	70.0	58.5	М	64.5	3
399	95	70.0	58.5	F	63.0	3
400	96	70.0		М		5
			58.0		72.0	5
401	96	70.0	58.0	М	66.0	5
402	96	70.0	58.0	F	66.0	5
403	96	70.0	58.0	F	65.0	5
404	96	70.0	58.0	F	63.0	5
405	97	69.0	68.5	М	75.0	10
406	97	69.0	68.5	М	71.0	10
407	97	69.0	68.5	М	70.0	10
408	97	69.0	68.5	 F	66.0	10
409	97	69.0	68.5	F	66.0	10

410	97	69.0	68.5	F	65.5	10
411	97	69.0	68.5	F	65.0	10
412	97	69.0	68.5	F	65.0	10
413	97	69.0	68.5	F	64.0	10
414	97	69.0	68.5	F	64.0	10
415	98	69.0	67.0	F	64.0	1
416	99	69.0	66.0	M		8
					73.0	
417	99	69.0	66.0	M	72.0	8
418	99	69.0	66.0	M	71.7	8
419	99	69.0	66.0	M	71.5	8
420	99	69.0	66.0	F	65.5	8
421	99	69.0	66.0	F	65.0	8
422	99	69.0	66.0	F	62.7	8
423	99	69.0	66.0	F	62.5	8
424	100	69.0	66.0	М	71.2	3
425	100	69.0	66.0	М	71.0	3
426	100	69.0	66.0	М	70.0	3 3 3
427	101	69.0	66.7	М	75.0	6
428	101	69.0	66.7	М	74.0	6
429	101	69.0	66.7	M	72.0	6
430	101	69.0	66.7	M	68.5	6
431	101	69.0	66.7	M	67.0	6
432	101	69.0	66.7	M	66.0	6
433	102	69.0	66.0	M	70.0	6
434	102	69.0	66.0	М	68.5	6
435	102	69.0	66.0	М	68.0	6
436	102	69.0	66.0	F	65.0	6
437	102	69.0	66.0	F	63.0	6
438	102	69.0	66.0	F	62.5	6
439	103	69.0	66.5	М	73.0	5
440	103	69.0	66.5	М	71.0	5 5
441	103	69.0	66.5	М	70.5	5
442	103	69.0	66.5	М	70.5	5
443	103	69.0	66.5	F	61.0	5 5
444	104	69.5	66.5	M	70.5	4
445	104	69.5	66.5	М	67.5	4
446	104	69.5	66.5	F	64.5	4
447	104	69.5	66.5	F	64.0	4
448	105	69.0	66.5	M	71.0	6
449	105	69.0	66.5	F	68 . 5	6
450	105	69.0	66.5	F	67.5	6
451	105	69.0	66.5	F	66.0	6
452	105	69.0	66.5	F	63.0	6
453	105	69.0	66.5	F	63.0	6
454	106	69.5	66.0	М	71.0	7
455	106	69.5	66.0	М	71.0	7
456	106	69.5	66.0	М	70.5	7
457	106	69.5	66.0	М	70.5	7
458	106	69.5	66.0	F	66.5	7
459	106	69.5	66.0	F	65.5	7

460	106	69.5	66.0	F	64.5	7
461	107	69.0	66.0	M	73.0	9
462	107	69.0	66.0	М	72.0	9
463	107	69.0	66.0	М	69.0	9
464	107	69.0	66.0	М	69.0	9
465	107	69.0	66.0	F	66.5	9
466	107	69.0	66.0	F	65.5	9
467	107	69.0	66.0	F	65.5	9
468	107	69.0	66.0	F	65.0	9
469	107	69.0	66.0	F	64.0	9
470	108	69.0	65.0	М	70.0	7
471	108	69.0	65.0	М	68.5	7
472	108	69.0	65.0	М	67.0	7
473	108	69.0	65.0	F	65.0	7
474	108	69.0	65.0	F	64.0	7
475	108	69.0	65.0	F	63.5	7
476	108	69.0	65.0	F	61.0	7
477		69.5		M		7
	109		64.5		69.7	
478	109	69.5	64.5	М	68.0	7
479	109	69.5	64.5	М	60.0	7
480	109	69.5	64.5	F	65.2	7
481	109	69.5	64.5	F	64.5	7
482	109	69.5	64.5	F	63.7	7
483	109	69.5	64.5	F	60.0	7
484	110	69.2	64.0	М	71.7	4
485	110	69.2	64.0	М	66.5	4
486	110	69.2	64.0	F	65.0	4
487	110	69.2	64.0	F	63.5	4
488						
	112	69.0	63.0	М	69.0	3
489	112	69.0	63.0	F	67.5	3
490	112	69.0	63.0	F	63.5	3
491	113	69.0	63.0	М	72.0	1
492	114	69.0	63.0	М	73.0	6
493	114	69.0	63.0	М	70.0	6
494	114	69.0	63.0	М	70.0	6
495	114	69.0	63.0	М	64.0	6
496	114	69.0	63.0	F	66.0	6
497	114	69.0	63.0	F	62.0	6
498	115	69.0	63.5	M	70.5	7
499	115	69.0	63.5	M	67.0	7
500	115	69.0	63.5	M	66.0	7
501	115	69.0	63.5	F	65.0	7
502	115	69.0	63.5	F	63.0	7
503	115	69.0	63.5	F	62.0	7
504	115	69.0	63.5	F	61.0	7
505	116	69.0	63.5	М	70.5	3
506	116	69.0	63.5	F	63.7	3
507	116	69.0	63.5	F	63.0	3
508	117	69.7	62.0	F	62.5	1
509	118	69.5	62.0	M	73.0	3
פטכ	110	09.3	UZ • U	ויו	13.0	3

510	118	69.5	62.0	М	72.0	3
511	118	69.5	62.0	M	69.0	3 3
512	119	69.0		M	73.0	5
			62.0			5
513	119	69.0	62.0	М	71.0	5
514	119	69.0	62.0	М	71.0	5
515	119	69.0	62.0	M	69.0	5
516	119	69.0	62.0	F	63.0	5
517	121	69.0	62.5	М	71.0	8
518	121	69.0	62.5	М	70.0	8
519	121	69.0	62.5	М	70.0	8
520	121	69.0	62.5	М	69.0	8
521	121	69.0	62.5	F	63.5	8
522	121	69.0	62.5	F	62.5	8
523	121	69.0	62.5	F	62.5	8
524	121	69.0	62.5	F	62.0	8
525	122	69.0	62.0	M	72.0	4
526	122	69.0	62.0	M	68.0	4
527	122	69.0	62.0	F	66.0	4
528	122	69.0	62.0	F	66.0	4
529	123	69.5	61.0	M	70.0	5
530	123	69.5	61.0	M	69.5	5
531	123	69.5	61.0	M	69.0	5
532	123	69.5	61.0	F	63.0	5
533	123	69.5	61.0	r F	62.0	5
534	123	69.0	61.0	M	68.0	9
535	124	69.0		M	68.0	9
536	124	69.0	61.0			
			61.0	M	67 . 5	9
537	124	69.0	61.0	М	64.0	9
538	124	69.0	61.0	M	63.0	9
539	124	69.0	61.0	M	63.0	9
540	124	69.0	61.0	F	63.5	9
541	124	69.0	61.0	F	62.0	9
542	124	69.0	61.0	F	62.0	9
543	125	69.0	60.0	M	70.5	3
544	125	69.0	60.0	F	68.0	3
545	125	69.0	60.0	F	62.5	3
546	126	69.0	60.0	М	69.0	4
547	126	69.0	60.0	M	66.0	4
548	126	69.0	60.0	F	61.7	4
549	126	69.0	60.0	F	60.5	4
550	127	69.0	60.5	М	69.5	1
551	128	68.7	70.5	М	71.0	2
552	128	68.7	70.5	F	61.7	2
553	129	68.5	67.0	М	73.0	2 3 3
554	129	68.5	67.0	М	71.0	3
555	129	68.5	67.0	F	67.0	3
556	130	68.5	66.5	М	70.0	11
557	130	68.5	66.5	М	69.0	11
558	130	68.5	66.5	М	69.0	11
559	130	68.5	66.5	М	68.7	11

560	130	68.5	66.5	М	68.5	11
561	130	68.5	66.5	и М	68.5	11
562	130	68.5	66.5	M	68.0	11
563	130	68.5	66.5	M	68.0	11
564	130	68.5	66.5	M	68.0	11
565	130	68.5	66.5	F	63.2	11
566	131	68.0	65.0	М	67.5	2
567	131	68.0	65.0	М	66.0	2
568	132	68.0	65.5	М	66.0	2
569	132	68.0	65.5	F	64.0	2
570	133	68.0	65.5	М	71.7	7
571	133	68.0	65.5	М	71.5	7
572	133	68.0	65.5	М	70.7	7
573	133	68.0	65.5	M	65.5	7
574	133	68.0	65.5	F	66.5	7
575	133	68.0	65.5	F	65.2	7
576	133	68.0		, F		7
			65.5		61.5	
577	134	68.0	65.0	M	72.0	4
578	134	68.0	65.0	M	72.0	4
579	134	68.0	65.0	F	68.0	4
580	134	68.0	65.0	F	66.0	4
581	135	68.5	65.0	М	69.2	8
582	135	68.5	65.0	М	68.0	8
583	135	68.5	65.0	М	66.0	8
584	135	68.5	65.0	М	66.0	8
585	135	68.5	65.0	F	62.0	8
586	135	68.5	65.0	F	61.5	8
587	135	68.5	65.0	F	61.0	8
588	135	68.5	65.0	F	60.0	8
589	136	68.0	64.0	М	71.0	10
590	136	68.0	64.0	M	68.0	10
591	136	68.0		M	68.0	
			64.0			10
592	136	68.0	64.0	M	67.0	10
593	136	68.0	64.0	F	65.0	10
594	136	68.0	64.0	F	64.0	10
595	136	68.0	64.0	F	63.0	10
596	136	68.0	64.0	F	63.0	10
597	136	68.0	64.0	F	62.0	10
598	136	68.0	64.0	F	61.0	10
599	137	68.0	64.0	М	66.0	4
600	137	68.0	64.0	М	63.0	4
601	137	68.0	64.0	F	65.5	4
602	137	68.0	64.0	F	62.0	4
603	138	68.0	64.0	M	71.2	5
604	138	68.0	64.0	 М	71.2	5
605	138	68.0	64.0	M	69.0	5
606	138	68.0	64.0	M	68.5	5
						5
607	138	68.0	64.0	F	62.5	
608	139	68.0	64.5	F	62.0	1
609	140	68.0	64.0	М	69.0	10

610	140	68.0	64.0	М	67.0	10
611	140	68.0	64.0	М	66.0	10
612	140	68.0	64.0	F	66.0	10
613	140	68.0	64.0	F	66.0	10
614	140	68.0	64.0	F	65.0	10
615	140	68.0	64.0	F	65.0	10
616	140	68.0	64.0	F	65.0	10
617	140	68.0	64.0	F	64.0	10
618	140	68.0	64.0	F	63.0	10
619	141	68.0	63.0	М	70.5	8
620	141	68.0	63.0	М	70.0	8
621	141	68.0	63.0	М	68.0	8
622	141	68.0	63.0	М	66.0	8
623	141	68.0	63.0	М	66.0	8
624	141	68.0	63.0	F	66.0	8
625	141	68.0	63.0	F	62.0	8
626	141	68.0	63.0	F	61.5	8
627	142	68.5	63.5	М	73.5	4
628	142	68.5	63.5	М	70.0	4
629	142	68.5	63.5	М	69.5	4
630	142	68.5	63.5	F	65.5	4
631	143	68.0	63.0	М	67.0	1
632	144	68.0	63.0	М	70.0	4
633	144	68.0	63.0	М	68.0	4
634	144	68.0	63.0	F	64.5	4
635	144	68.0	63.0	F	64.0	4
636	145	68.0	63.0	М	71.0	8
637	145	68.0	63.0	М	68.0	8
638	145	68.0	63.0	М	66.0	8
639	145	68.0	63.0	М	65.5	8
640	145	68.0	63.0	М	65.0	8
641	145	68.0	63.0	F	63.0	8
642	145	68.0	63.0	F	62.0	8
643	145	68.0	63.0	F	62.0	8
644	146	68.0	63.0	М	67.0	6
645	146	68.0	63.0	М	67.0	6
646	146	68.0	63.0	М	66.0	6
647	146	68.0	63.0	F	64.0	6
648	146	68.0	63.0	F	63.5	6
649	146	68.0	63.0	F	61.0	6
650	147	68.5	63.5	М	68.2	1
651	148	68.0	63.0	М	70.0	1
652	149	68.2	63.5	М	70.0	5
653	149	68.2	63.5	М	69.0	5
654	149	68.2	63.5	М	67.0	5
655	149	68.2	63.5	М	65.5	5
656	149	68.2	63.5	F	64.5	5 5 5 5
657	150	68.0	62.5	М	68.5	1
658	151	68.7	62.0	 М	67.7	2
659	151	68 . 7	62.0	F.	61.7	2
333		55.7	J U	•	J-1,	_

660 661 662 663	152 153 153 153	68.0 68.0 68.0 68.0	62.5 61.0 61.0 61.0	M M M	66.5 68.5 68.0 64.0	1 5 5 5
664 665 666 667	153 153 154 155	68.0 68.0 68.0 68.0	61.0 61.0 60.2 60.0	F F M	63.5 63.0 66.7 64.0	5 5 1 7
668 669 670	155 155 155	68.0 68.0 68.0	60.0 60.0 60.0	F F	61.0 61.0 60.0	7 7 7
671 672 673 674	155 155 155 156	68.0 68.0 68.0 68.0	60.0 60.0 60.0 60.0	F F M	60.0 60.0 56.0 67.5	7 7 7 4
675 676 677 678	156 156 156 157	68.0 68.0 68.0 68.5	60.0 60.0 60.0 59.0	M M F M	67.0 66.5 60.0 69.0	4 4 4 1
679 680 681	158 158 158	68.0 68.0 68.0	59.0 59.0 59.0	M M M	68.0 65.0 64.7	10 10 10
682 683 684 685	158 158 158 158	68.0 68.0 68.0 68.0	59.0 59.0 59.0 59.0	M M M F	64.0 64.0 63.0 65.0	10 10 10 10
686 687 688 689	158 158 158 159	68.0 68.0 68.0 67.0	59.0 59.0 59.0 66.2	F F M	65.0 62.0 61.0 72.7	10 10 10 5
690 691 692 693	159 159 159 159	67.0 67.0 67.0 67.0	66.2 66.2 66.2 66.2	M M F F	72.7 71.5 65.5 63.5	5 5 5 5
694 695 696	160 162 162	67.0 67.0 67.0	66.5 65.0 65.0	M M M	71.0 69.7 67.5	1 6 6
697 698 699 700	162 162 162 162	67.0 67.0 67.0 67.0	65.0 65.0 65.0	F F F	65.5 65.0 64.5 63.5	6 6 6
701 702 703 704	163 163 163 163	67.0 67.0 67.0 67.0	65.5 65.5 65.5	M M F F	70.0 69.0 65.5 65.5	5 5 5 5
705 706 707 708	163 164 164 164	67.0 67.0 67.0	65.5 65.5 65.5	F M M F	63.0 70.0 67.7 63.0	5 4 4 4
709	164	67.0	65.5	F	60.0	4

710 711 712	165 165 165	67.0 67.0 67.0	65.0 65.0 65.0	M F F	65.0 62.0 62.0	3 3 3
713	166	67.5	65.0	М	71.0	11
714	166	67.5	65.0	М	69.0	11
715	166	67.5	65.0	F	64.0	11
716	166	67 . 5	65.0	F	64.0	11
717 718	166	67.5	65.0	F F	63.0	11 11
710 719	166 166	67.5 67.5	65.0 65.0	г F	63.0 63.0	11
720	166	67.5	65.0	, F	63.0	11
721	166	67.5	65.0	F	63.0	11
722	166	67.5	65.0	F	62.5	11
723	166	67.5	65.0	F	62.0	11
724	167	67.0	64.0	М	71.5	4
725	167	67.0	64.0	М	70.0	4
726	167	67 . 0	64.0	М	67.0	4
727 728	167 168	67.0 67.0	64.0 63.5	M M	67.0 71.0	4 8
729	168	67.0	63.5	M	70.2	8
730	168	67.0	63.5	M	69.2	8
731	168	67.0	63.5	 М	68.5	8
732	168	67.0	63.5	М	68.0	8
733	168	67.0	63.5	М	67.0	8
734	168	67.0	63.5	М	65.5	8
735	168	67.0	63.5	F	63.5	8
736	169	67.0	63.0	М	69.0	3 3 3
737	169	67.0	63.0	M	68.0	3
738 739	169 170	67.0 67.5	63.0 62.0	F M	63.0 70.0	5 5
740	170	67.5	62.0	M	69.5	5
741	170	67 . 5	62.0	 М	69.0	5
742	170	67.5	62.0	М	68.5	5
743	170	67.5	62.0	F	66.0	5
744	171	67.0	61.0	М	67.0	1
745	172	66.0	67.0	М	70.5	8
746	172	66.0	67.0	М	70.5	8
747	172	66.0	67.0	М	67.0	8
748 749	172 172	66.0 66.0	67.0 67.0	M M	66.0 66.0	8 8
749 750	172	66.0	67.0	F	62.0	8
751	172	66.0	67.0	F	62.0	8
752	172	66.0	67.0	F	61.5	8
753	173	66.0	67.0	М	72.0	9
754	173	66.0	67.0	М	65.0	9
755	173	66.0	67.0	M	65.0	9
756	173	66.0	67.0	F	67.0	9
757 750	173 173	66.0	67 . 0	F	64.0	9
758 759	173 173	66.0 66.0	67.0 67.0	F F	64.0 62.0	9 9
1 33	1/3	00.0	0/10	1	02.0	9

760	173	66.0	67.0	F	60.0	9
761	173	66.0	67.0	F	60.0	9
762	174	66.0	66.0	М	66.0	5
763	174			М		
		66.0	66.0		65.0	5
764	174	66.0	66.0	F	67.0	5
765	174	66.0	66.0	F	66.5	5
				F		5
766	174	66.0	66.0		65.5	
767	175	66.0	66.0	М	72.0	6
768	175	66.0	66.0	М	68.0	6
				F		
769	175	66.0	66.0		66.0	6
770	175	66.0	66.0	F	65.0	6
771	175	66.0	66.0	F	62.0	6
772	175	66.0	66.0	F	61.0	6
773	176	66.5	65.0	М	68.7	8
774	176	66.5	65.0	М	68.5	8
775	176	66.5	65.0	М	66.5	8
776	176	66.5	65.0	М	64.5	8
777	176	66.5	65.0	F	62.5	8
778	176	66.5	65.0	F	60.5	8
779	176	66.5	65.0	F	60.5	8
780	176	66.5	65.0	F	57.5	8
781	177	66.0	65.5	М	72.0	5
782	177	66.0	65.5	М	71.0	5
783	177	66.0	65.5	М	67.0	5
784	177	66.0	65.5	F	66.0	5
785	177	66.0	65.5	F	65.0	5
786	178	66.0	63.0	М	70.0	1
787	179	66.0	63.5	F	64.5	2
788	179	66.0	63.5	F	62.0	2
789	180	66.5	63.0	М	67.2	6
790	180	66.5	63.0	М	67.0	6
791	180	66.5	63.0	М	65.0	6
792	180	66.5	63.0	F	65.0	6
793	180	66.5	63.0	F	65.0	6
794	180	66.5	63.0	F	63.0	6
795	181	66.5	62.5	М	70.0	7
796	181	66.5	62.5	М	68.0	7
797	181	66.5	62.5	F	63.5	7
798	181	66.5	62.5	F	62.5	7
799	181	66.5	62.5	F.	62.5	7
800	181	66.5	62.5	F	62.5	7
801	181	66.5	62.5	F	62.5	7
802	182	66.0	61.5	М	70.0	1
803	183	66.0	60.0	М	68.0	4
804	183	66.0	60.0	М	67.0	4
805	183	66.0	60.0	М	65.0	4
806	183	66.0		F		4
			60.0		60.0	
807	184	66.0	60.0	М	65.0	1
808	185	66.0	59.0	М	68.0	15
809	185	66.0	59.0	М	67.0	15
303	100		5510	11	5/10	10

810	185	66.0	59.0	М	66.5	15
811	185	66.0	59.0	М	66.0	15
812	185	66.0	59.0	М	65.7	15
813	185	66.0	59.0	М	65.5	15
814	185	66.0	59.0	М	65.0	15
815	185	66.0	59.0	F	65.0	15
816	185	66.0	59.0	F	64.0	15
817	185	66.0	59.0	F	63.0	15
818	185	66.0	59.0	F	62.0	15
819	185	66.0	59.0	F	61.0	15
820	185	66.0	59.0	F	60.0	15
821	185	66.0	59.0	F	58.0	15
822	185	66.0	59.0	F	57.0	15
823	186	65.0	67.0	M	66.5	4
824	186	65.0	67.0	M	66.0	4
825	186	65.0	67.0	M	66.0	4
			67.0	F		4
826	186	65.0			65.0	
827	187	65.0	67.0	F	63.0	1
828	188	65.0	66.0	М	63.0	4
829	188	65.0	66.0	F	63.0	4
830	188	65.0	66.0	F	63.0	4
831	188	65.0	66.0	F	60.0	4
832	190	65.0	65.0	М	69.0	9
833	190	65.0	65.0	М	68.0	9
834	190	65.0	65.0	М	68.0	9
835	190	65.0	65.0	F	65.0	9
836	190	65.0	65.0	F	65.0	9
837	190	65.0	65.0	F	62.0	9
838	190	65.0	65.0	F	62.0	9
839	190	65.0	65.0	F	61.0	9
840	190	65.0	65.0	F	59.0	9
841	191	65.0	65.5	М	70.7	2
842	191	65.0	65.5	F	65.5	2
843	192	65.0	65.0	М	69.2	6
844	192	65.0	65.0	М	69.0	6
845	192	65.0	65.0	М	68.0	6
846	192	65.0	65.0	М	67.7	6
847	192	65.0	65.0	F	64.5	6
848	192	65.0	65.0	F	60.5	6
849	193	65.0	64.0	М	67.0	6
850	193	65.0	64.0	М	67.0	6
851	193	65.0	64.0	F	64.0	6
852	193	65.0	64.0	F	64.0	6
853	193	65.0	64.0	F	62.5	6
854	193	65.0	64.0	F	60.5	6
855	194	65.0	63.0	М	70.0	2
856	194	65.0	63.0	F	63.0	2
857	195	65.0	63.0	M	66.0	3
858	195	65.0	63.0	М	66.0	2 3 3
859	195	65.0	63.0	F	63.0	3
				•		_

```
860
        196
               65.5
                       63.0
                                        71.0
                                   М
861
        196
               65.5
                       63.0
                                        71.0
                                   М
                                        69.0
862
        196
               65.5
                       63.0
                                   Μ
                                        63.5
863
        196
               65.5
                       63.0
                                   F
        197
                                        68.0
864
               65.5
                       60.0
                                   Μ
        197
               65.5
                       60.0
                                        68.0
865
                                   Μ
866
        197
               65.5
                       60.0
                                   М
                                        67.0
867
        197
               65.5
                       60.0
                                        67.0
                                   Μ
868
        197
               65.5
                       60.0
                                   F
                                        62.0
                                        71.5
869
        198
               64.0
                       64.0
                                   М
870
        198
                       64.0
                                        68.0
               64.0
                                   М
871
        198
               64.0
                       64.0
                                   F
                                        65.5
872
        198
               64.0
                       64.0
                                   F
                                        64.0
        198
                                   F
873
               64.0
                       64.0
                                        62.0
                                   F
874
        198
               64.0
                       64.0
                                        62.0
                                   F
                                        61.0
875
        198
               64.0
                       64.0
876
        199
               64.0
                       64.0
                                   М
                                        70.5
        199
877
               64.0
                       64.0
                                   Μ
                                        68.0
878
        199
               64.0
                       64.0
                                   F
                                        67.0
                                   F
879
        199
               64.0
                       64.0
                                        65.0
        199
                                   F
                                        64.0
880
               64.0
                       64.0
881
        199
               64.0
                       64.0
                                   F
                                        64.0
882
        199
                       64.0
                                   F
                                        60.0
               64.0
        200
883
               64.0
                       63.0
                                   Μ
                                        64.5
884
        201
               64.0
                       60.0
                                   Μ
                                        66.0
885
        201
               64.0
                                   F
                       60.0
                                        60.0
886
        203
               62.0
                       66.0
                                   Μ
                                        64.0
        203
                                        62.0
887
               62.0
                       66.0
                                   F
888
        203
               62.0
                       66.0
                                   F
                                        61.0
889
        204
               62.5
                       63.0
                                   М
                                        66.5
        204
                       63.0
                                   F
                                        57.0
890
               62.5
891
       136A
               68.5
                       65.0
                                   М
                                        72.0
                                        70.5
892
       136A
               68.5
                       65.0
                                   М
893
       136A
               68.5
                                   М
                                        68.7
                       65.0
894
       136A
               68.5
                       65.0
                                   М
                                        68.5
895
       136A
               68.5
                       65.0
                                   М
                                        67.7
896
       136A
               68.5
                       65.0
                                   F
                                        64.0
897
       136A
                                   F
                                        63.5
               68.5
                       65.0
       136A
                                   F
898
               68.5
                       65.0
                                        63.0
> data1=read.csv("~/Desktop/Galton.csv")
> head(data1)
  Family Father Mother Gender Height Kids
1
             78.5
                                      73.2
        1
                     67.0
                                 М
                                               4
2
             78.5
                                 F
                                               4
        1
                     67.0
                                      69.2
3
        1
             78.5
                     67.0
                                 F
                                      69.0
                                               4
4
             78.5
                                 F
                                               4
        1
                     67.0
                                      69.0
5
        2
             75.5
                     66.5
                                 М
                                      73.5
                                               4
6
        2
             75.5
                     66.5
                                 М
                                      72.5
                                               4
```

4

4

4

4 5

5

5

5

5

7

7

7

7 7

7

7

7

7

7

7

7

7

7

1

2

2

3

3

3

2

2

8

8

8

8

8

8

8

8

> dim(data1)
[1] 898 6

```
> y<-data1$Height
> x1<-data1$Father
> x2<-data2$Mother
Error: object 'data2' not found
> x2<-data1$Mother
> x3<-as.numeric(data$Gender)-1
Error in data$Gender: object of type 'closure' is not subsettable
> x3<-as.numeric(data1$Gender)-1</pre>
> head(x3)
[1] 1 0 0 0 1 1
  [1] 73.2 69.2 69.0 69.0 73.5 72.5 65.5 65.5 71.0 68.0 70.5 68.5
 [13] 67.0 64.5 63.0 72.0 69.0 68.0 66.5 62.5 62.5 69.5 76.5 74.0
 [25] 73.0 73.0 70.5 64.0 70.5 68.0 66.0 66.0 65.5 74.0 70.0 68.0
 [37] 67.0 67.0 66.0 63.5 63.0 65.0 68.0 67.0 71.0 70.5 66.7 72.0
 [49] 70.5 70.2 70.2 69.2 68.7 66.5 64.5 63.5 74.0 73.0 71.5 62.5
 [61] 66.5 62.3 66.0 64.5 64.0 62.7 73.2 73.0 72.7 70.0 69.0 68.5
 [73] 68.0 66.0 73.0 68.5 68.0 73.0 71.0 67.0 74.2 70.5 69.5 66.0
 [85] 65.5 65.0 65.0 65.5 66.0 63.0 70.5 70.5 69.0 65.0 63.0 69.0
 [97] 67.0 63.0 73.0 67.0 70.5 70.0 66.5 63.0 67.5 67.2 66.7 64.0
[109] 71.0 70.0 70.0 66.0 65.0 65.0 74.0 72.0 69.0 67.5 63.5 72.0
[121] 71.5 71.5 70.0 68.0 65.7 78.0 74.0 73.0 72.0 67.0 73.2 73.0
[133] 69.0 67.0 70.0 67.0 67.0 66.5 70.0 69.0 68.5 66.0 64.5 63.0
[145] 71.0 67.0 76.0 72.0 71.0 66.0 66.0 70.5 72.0 72.0 71.0 69.0
[157] 66.0 65.0 73.0 65.2 68.5 67.7 68.0 68.0 62.0 68.0 68.0 67.5
[169] 66.5 66.5 66.0 65.5 65.0 72.0 71.0 70.5 67.0 68.0 68.0 68.0
[181] 72.0 71.0 70.0 66.0 64.5 64.5 62.0 67.5 64.5 71.0 67.0 66.0
[193] 65.0 63.5 71.0 70.0 70.0 64.0 65.0 65.0 64.0 63.0 63.0 71.0
[205] 71.0 70.0 63.5 71.0 70.0 64.5 62.5 61.5 72.0 70.5 70.5 64.5
[217] 60.0 70.0 64.0 64.0 64.0 62.5 70.5 70.0 69.0 69.0 66.0 64.5
[229] 64.0 62.0 71.5 69.0 71.0 70.0 69.0 69.0 70.0 68.7 68.0 66.0
[241] 64.0 62.0 75.0 70.0 69.0 66.0 64.0 60.0 67.5 73.0 72.0 72.0
[253] 66.5 69.2 67.2 66.5 66.0 66.0 64.2 63.7 72.0 70.2 69.0 68.5
[265] 68.0 65.0 61.5 61.0 61.0 73.0 72.0 70.5 65.0 65.0 64.5 63.0
[277] 62.0 67.0 65.0 64.5 62.5 62.5 70.0 70.0 67.0 65.0 65.0 63.0
[289] 79.0 75.0 71.0 69.0 67.0 65.7 62.0 73.0 72.5 65.0 69.0 69.0
[301] 72.0 70.0 68.7 66.5 65.5 64.7 64.5 70.7 70.0 68.0 67.0 66.0
[313] 65.0 67.0 70.0 68.0 66.7 65.5 72.0 70.0 62.5 61.2 60.1 74.0
[325] 69.5 69.0 68.0 68.0 68.0 65.5 65.0 60.0 68.0 65.0 64.0 62.0
[337] 71.0 70.0 70.0 70.0 69.5 68.5 69.0 65.0 64.0 70.0 67.0 65.5
[349] 63.7 63.2 62.5 62.2 61.0 72.5 69.0 67.0 64.5 64.0 71.0 67.5
[361] 67.5 63.5 68.0 67.0 63.7 62.0 70.0 66.5 62.0 61.0 72.0 70.0
[373] 69.5 69.5 68.0 65.0 64.0 63.0 70.7 69.7 69.2 65.2 64.0 63.5
[385] 63.2 72.0 72.0 60.0 71.2 67.0 67.0 64.5 65.0 63.0 65.0 65.0
[397] 71.5 64.5 63.0 72.0 66.0 66.0 65.0 63.0 75.0 71.0 70.0 66.0
[409] 66.0 65.5 65.0 65.0 64.0 64.0 64.0 73.0 72.0 71.7 71.5 65.5
[421] 65.0 62.7 62.5 71.2 71.0 70.0 75.0 74.0 72.0 68.5 67.0 66.0
[433] 70.0 68.5 68.0 65.0 63.0 62.5 73.0 71.0 70.5 70.5 61.0 70.5
[445] 67.5 64.5 64.0 71.0 68.5 67.5 66.0 63.0 63.0 71.0 71.0 70.5
[457] 70.5 66.5 65.5 64.5 73.0 72.0 69.0 69.0 66.5 65.5 65.5 65.0
```

```
[469] 64.0 70.0 68.5 67.0 65.0 64.0 63.5 61.0 69.7 68.0 60.0 65.2
[481] 64.5 63.7 60.0 71.7 66.5 65.0 63.5 69.0 67.5 63.5 72.0 73.0
[493] 70.0 70.0 64.0 66.0 62.0 70.5 67.0 66.0 65.0 63.0 62.0 61.0
[505] 70.5 63.7 63.0 62.5 73.0 72.0 69.0 73.0 71.0 71.0 69.0 63.0
[517] 71.0 70.0 70.0 69.0 63.5 62.5 62.5 62.0 72.0 68.0 66.0 66.0
[529] 70.0 69.5 69.0 63.0 62.0 68.0 68.0 67.5 64.0 63.0 63.0 63.5
[541] 62.0 62.0 70.5 68.0 62.5 69.0 66.0 61.7 60.5 69.5 71.0 61.7
[553] 73.0 71.0 67.0 70.0 69.0 69.0 68.7 68.5 68.5 68.0 68.0 68.0
[565] 63.2 67.5 66.0 66.0 64.0 71.7 71.5 70.7 65.5 66.5 65.2 61.5
[577] 72.0 72.0 68.0 66.0 69.2 68.0 66.0 66.0 62.0 61.5 61.0 60.0
[589] 71.0 68.0 68.0 67.0 65.0 64.0 63.0 63.0 62.0 61.0 66.0 63.0
[601] 65.5 62.0 71.2 71.2 69.0 68.5 62.5 62.0 69.0 67.0 66.0 66.0
[613] 66.0 65.0 65.0 65.0 64.0 63.0 70.5 70.0 68.0 66.0 66.0 66.0
[625] 62.0 61.5 73.5 70.0 69.5 65.5 67.0 70.0 68.0 64.5 64.0 71.0
[637] 68.0 66.0 65.5 65.0 63.0 62.0 62.0 67.0 67.0 66.0 64.0 63.5
[649] 61.0 68.2 70.0 70.0 69.0 67.0 65.5 64.5 68.5 67.7 61.7 66.5
[661] 68.5 68.0 64.0 63.5 63.0 66.7 64.0 61.0 61.0 60.0 60.0 60.0
[673] 56.0 67.5 67.0 66.5 60.0 69.0 68.0 65.0 64.7 64.0 64.0 63.0
[685] 65.0 65.0 62.0 61.0 72.7 72.7 71.5 65.5 63.5 71.0 69.7 67.5
[697] 65.5 65.0 64.5 63.5 70.0 69.0 65.5 65.5 63.0 70.0 67.7 63.0
[709] 60.0 65.0 62.0 62.0 71.0 69.0 64.0 64.0 63.0 63.0 63.0 63.0
[721] 63.0 62.5 62.0 71.5 70.0 67.0 67.0 71.0 70.2 69.2 68.5 68.0
[733] 67.0 65.5 63.5 69.0 68.0 63.0 70.0 69.5 69.0 68.5 66.0 67.0
[745] 70.5 70.5 67.0 66.0 66.0 62.0 62.0 61.5 72.0 65.0 65.0 67.0
[757] 64.0 64.0 62.0 60.0 60.0 66.0 65.0 67.0 66.5 65.5 72.0 68.0
[769] 66.0 65.0 62.0 61.0 68.7 68.5 66.5 64.5 62.5 60.5 60.5 57.5
[781] 72.0 71.0 67.0 66.0 65.0 70.0 64.5 62.0 67.2 67.0 65.0 65.0
[793] 65.0 63.0 70.0 68.0 63.5 62.5 62.5 62.5 70.0 68.0 67.0
[805] 65.0 60.0 65.0 68.0 67.0 66.5 66.0 65.7 65.5 65.0 65.0 64.0
[817] 63.0 62.0 61.0 60.0 58.0 57.0 66.5 66.0 66.0 65.0 63.0 63.0
[829] 63.0 63.0 60.0 69.0 68.0 68.0 65.0 65.0 62.0 62.0 61.0 59.0
[841] 70.7 65.5 69.2 69.0 68.0 67.7 64.5 60.5 67.0 67.0 64.0 64.0
[853] 62.5 60.5 70.0 63.0 66.0 66.0 63.0 71.0 71.0 69.0 63.5 68.0
[865] 68.0 67.0 67.0 62.0 71.5 68.0 65.5 64.0 62.0 62.0 61.0 70.5
[877] 68.0 67.0 65.0 64.0 64.0 60.0 64.5 66.0 60.0 64.0 62.0 61.0
[889] 66.5 57.0 72.0 70.5 68.7 68.5 67.7 64.0 63.5 63.0
> x1
 [1] 78.5 78.5 78.5 78.5 75.5 75.5 75.5 75.0 75.0 75.0 75.0
 [25] 74.0 74.0 74.0 74.0 74.0 74.0 74.0 74.5 74.0 74.0 74.0 74.0
 [37] 74.0 74.0 74.0 74.0 74.0 74.0 73.0 73.0 73.0 73.0 73.0 73.0
 [61] 73.0 73.0 73.0 73.0 73.0 73.2 72.7 72.7 72.7 72.7 72.7
 [97] 72.0 72.0 72.0 72.0 72.0 72.0 72.0 72.5 72.5 72.5
[109] 72.5 72.5 72.5 72.5 72.5 72.5 72.0 72.0 72.0 72.0 72.0 72.0
[121] 72.0 72.0 72.0 72.0 72.0 71.0 71.0 71.0 71.0 71.0 71.0
```

```
[157] 71.0 71.0 71.5 71.5 71.5 71.0 71.0 71.0 71.0 71.0 71.0
[181] 71.5 71.5 71.5 71.5 71.5 71.5 71.5 71.2 71.2 71.0 71.0 71.0
[373] 70.5 70.5 70.5 70.5 70.5 70.5 70.3 70.3 70.3 70.3 70.3
[445] 69.5 69.5 69.5 69.0 69.0 69.0 69.0 69.0 69.5 69.5 69.5
[469] 69.0 69.0 69.0 69.0 69.0 69.0 69.0 69.5 69.5 69.5
[481] 69.5 69.5 69.5 69.2 69.2 69.2 69.0 69.0 69.0 69.0 69.0
[505] 69.0 69.0 69.0 69.7 69.5 69.5 69.0 69.0 69.0 69.0 69.0
[529] 69.5 69.5 69.5 69.5 69.5 69.0 69.0 69.0 69.0 69.0 69.0
[577] 68.0 68.0 68.0 68.0 68.5 68.5 68.5 68.5 68.5 68.5 68.5
[625] 68.0 68.0 68.5 68.5 68.5 68.0 68.0 68.0 68.0 68.0 68.0
[649] 68.0 68.5 68.0 68.2 68.2 68.2 68.2 68.0 68.7 68.7 68.0
[709] 67.0 67.0 67.0 67.0 67.5 67.5 67.5 67.5 67.5 67.5
[733] 67.0 67.0 67.0 67.0 67.0 67.0 67.5 67.5 67.5 67.5 67.0
```

```
> x2
[1] 67.0 67.0 67.0 67.0 66.5 66.5 66.5 64.0 64.0 64.0 64.0
[13] 64.0 64.0 64.0 58.5 58.5 58.5 58.5 58.5 58.5 68.0 68.0 68.0
[25] 68.0 68.0 68.0 68.0 66.5 66.5 66.0 65.5 62.0 62.0 62.0
[37] 62.0 62.0 62.0 62.0 62.0 61.0 67.0 66.5 66.5 66.5 65.0
[61] 64.5 64.5 64.0 64.0 64.0 63.0 69.0 69.0 69.0 69.0 69.0 69.0
[73] 69.0 69.0 68.0 68.0 68.0 67.0 67.0 65.0 65.0 65.0 65.0
[85] 65.0 65.0 65.0 65.5 64.0 64.0 63.0 63.0 63.0 63.0 63.0 63.0
[97] 63.0 63.0 63.0 63.0 63.0 63.0 63.0 63.5 63.5 62.0
[121] 62.0 62.0 62.0 62.0 61.0 69.0 69.0 69.0 69.0 69.0 67.0 67.0
[169] 64.0 64.0 64.0 64.0 64.0 64.5 64.5 64.5 64.0 64.0 64.0
[181] 64.5 64.5 64.5 64.5 64.5 64.5 64.5 63.0 63.0 63.5 63.5 63.5
[217] 62.0 62.5 62.5 62.5 62.5 62.0 62.0 62.0 62.0 62.0 62.0
[241] 69.0 69.0 68.0 67.0 67.0 67.0 67.0 67.0 67.0 66.5 66.5
[301] 64.7 64.7 64.7 64.7 64.7 64.7 64.0 64.0 64.0 64.0 64.0
[313] 64.0 64.0 64.0 64.0 64.0 64.0 64.2 64.2 64.2 64.2 64.2 64.2
[325] 64.0 64.0 64.0 64.0 64.0 64.0 64.0 64.5 64.0 64.0 64.0 64.0
[349] 63.7 63.7 63.7 63.7 63.7 63.0 63.0 63.0 63.0 63.0 63.5 63.5
[373] 62.0 62.0 62.0 62.0 62.0 62.0 62.7 62.7 62.7 62.7 62.7 62.7
[409] 68.5 68.5 68.5 68.5 68.5 68.5 67.0 66.0 66.0 66.0 66.0
```

```
[481] 64.5 64.5 64.5 64.0 64.0 64.0 64.0 63.0 63.0 63.0 63.0 63.0
[493] 63.0 63.0 63.0 63.0 63.0 63.5 63.5 63.5 63.5 63.5 63.5
[517] 62.5 62.5 62.5 62.5 62.5 62.5 62.5 62.0 62.0 62.0 62.0
[601] 64.0 64.0 64.0 64.0 64.0 64.0 64.0 64.5 64.0 64.0 64.0 64.0
[613] 64.0 64.0 64.0 64.0 64.0 64.0 63.0 63.0 63.0 63.0 63.0 63.0
[625] 63.0 63.0 63.5 63.5 63.5 63.0 63.0 63.0 63.0 63.0 63.0
[649] 63.0 63.5 63.0 63.5 63.5 63.5 63.5 62.5 62.0 62.0 62.5
[661] 61.0 61.0 61.0 61.0 61.0 60.2 60.0 60.0 60.0 60.0 60.0 60.0
[673] 60.0 60.0 60.0 60.0 60.0 59.0 59.0 59.0 59.0 59.0 59.0
[685] 59.0 59.0 59.0 59.0 66.2 66.2 66.2 66.2 66.5 65.0 65.0
[721] 65.0 65.0 65.0 64.0 64.0 64.0 64.0 63.5 63.5 63.5 63.5 63.5
[733] 63.5 63.5 63.5 63.0 63.0 63.0 62.0 62.0 62.0 62.0 61.0
[781] 65.5 65.5 65.5 65.5 65.5 63.0 63.5 63.0 63.0 63.0 63.0
[793] 63.0 63.0 62.5 62.5 62.5 62.5 62.5 62.5 62.5 61.5 60.0 60.0
[817] 59.0 59.0 59.0 59.0 59.0 59.0 67.0 67.0 67.0 67.0 66.0
[877] 64.0 64.0 64.0 64.0 64.0 64.0 63.0 60.0 60.0 66.0 66.0 66.0
[889] 63.0 63.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0
> x3
 [32] 0 0 1 1 0 0 0 0 0 0 0 1 1 1 1 0 1 1 1 1 1 0 0 0 0 1 1 1 1 1 0 0
[63] 0 0 0 0 1 1 1 0 0 0 0 0 1 0 0 1 1 0 1 1 1 0 0 0 0 0 0 1 1 1
[94] 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 1 1 1 0 0 0 1 1 1 1 0 0 1 1 1 1 0
[125] 0 1 1 1 1 0 1 1 1 0 1 0 0 0 1 1 1 0 0 0 1 0 1 1 1 1 0 1 1 1 1
[156] 1 0 0 1 0 1 1 1 1 1 0 0 0 0 0 0 0 0 1 1 1 0 1 1 1 1 1 1 0 0 0
[187] 0 0 0 1 1 0 0 0 1 1 1 1 0 0 0 0 0 1 1 1 0 1 1 0 0 0 0 1 1 1 0 0
[280] 0 0 0 1 1 0 0 0 0 1 1 1 0 0 0 0 1 1 1 1 1 1 1 1 0 0 0 0 1 1 1
```

```
[342] 1 0 0 0 1 1 1 0 0 0 0 0 1 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1
[373] 1 1 1 0 0 0 1 1 1 1 1 0 0 0 1 1 0 1 1 1 1 0 0 0 0 1 1 0 1
[404] 0 1 1 1 0 0 0 0 0 0 0 0 1 1 1 1 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1
[466] 0 0 0 0 1 1 1 0 0 0 0 1 1 1 0 0 0 0 1 1 0 0 1 0 0 1 1 1 1 1 1 0
[528] 0 1 1 1 0 0 1 1 1 1 1 1 1 0 0 0 1 0 0 1 1 0 0 1 1 0 1 1 0 1 1 1
[559] 1 1 1 1 1 1 0 1 1 1 0 0 1 1 1 1 0 0 0 0 1 1 0 0 1 1 1 1 1 0 0 0 0 1
[590] 1 1 1 0 0 0 0 0 0 0 1 1 0 0 1 1 1 1 0 0 1 1 1 1 0 0 0 0 0 0 1 1
[652] 1 1 1 1 0 1 1 0 1 1 1 1 1 0 0 1 1 0 0 0 0 0 0 1 1 1 0 1 1 1 1 1
[683] 1 1 0 0 0 0 1 1 1 0 0 1 1 1 0 0 0 0 1 1 0 0 0 1 1 0 0 1 0 0 1
[745] 1 1 1 1 1 0 0 0 1 1 1 0 0 0 0 0 0 1 1 0 0 0 0 1 1 1 0 0 0 0 1 1 1
[776] 1 0 0 0 0 1 1 1 0 0 1 0 0 1 1 1 0 0 0 1 1 0 0 0 0 0 1 1 1 1 0
[807] 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 1 1 1 0 0 1 0 0 0 1 1 1 0 0 0
[838] 0 0 0 1 0 1 1 1 1 1 0 0 1 1 0 0 0 0 1 0 1 1 0 1 1 1 0 1 1 1 1 0
> lm(y \sim x1+x2+x3)
Call:
lm(formula = y \sim x1 + x2 + x3)
Coefficients:
(Intercept)
                  x1
                             x2
                                        х3
                          0.3215
                                     5.2260
   15.3448
               0.4060
> summary(lm(y \sim x1+x2+x3))
Call:
lm(formula = y \sim x1 + x2 + x3)
Residuals:
                     30
  Min
         10 Median
                          Max
-9.523 -1.440 0.117 1.473 9.114
Coefficients:
          Estimate Std. Error t value Pr(>|t|)
                    2.74696
                            5.586 3.08e-08 ***
(Intercept) 15.34476
                    0.02921
                           13.900 < 2e-16 ***
x1
           0.40598
x2
           0.32150
                    0.03128
                           10.277 < 2e-16 ***
x3
           5.22595
                    0.14401 36.289 < 2e-16 ***
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 2.154 on 894 degrees of freedom
Multiple R-squared: 0.6397,
                           Adjusted R-squared: 0.6385
            529 on 3 and 894 DF, p-value: < 2.2e-16
F-statistic:
> mod=lm(v \sim x1+x2+x3)
```

```
> confint(mod,level=0.95)
             2.5 %
                     97.5 %
(Intercept) 9.9535161 20.7360040
x1
         0.3486558
                  0.4633002
x2
         0.2601008
                  0.3828894
х3
         4.9433183 5.5085843
> confint(mod,level=0.9)
               5 %
                       95 %
(Intercept) 10.8217240 19.8677960
x1
          0.3578870
                  0.4540690
x2
          0.2699878
                   0.3730025
          4.9888337
х3
                   5.4630690
> plot(mod)
Hit <Return> to see next plot:
> par(mfrow=c(2,2)) ;plot(mod)
> plot(mod)
Hit <Return> to see next plot:
> par(mfrow=c(1,2)) ;plot(mod)
Hit <Return> to see next plot:
Hit <Return> to see next plot:
> par(mfrow=c(2,3)) ;plot(mod)
> v<-data1$Height
> x1<-data1$Father
> x2<-data1$Mother
> x3<- data1$Gender
> x3
 [1] M F F F M M F F M F M M M F F F F M M M M F F F F F
 [63] FFFFMMMFFFFFMFFMMFMMMFFFFFFMMM
 [125] F M M M M F M M F M F F F M M M F F F M F M M M M F M M M M
[156] M F F M F M M M M F F F F F F F F F M M M F M M M M M F F F
[187] F F F M M F F F M M M M F F F F F M M M F M M F F F M M M F F
[218] M F F F F M M M M M F F F M M M M M F M M F F F F M M M F F F
[249] F M M M M F F F F F F F M M M M F F F F M M M M M F F F M M
[280] F F F M M F F F F M M M F F F F M M F M M M M F F F F M M M
[311] MMMFMMMFMMFFFMMMMMMFFFMFFMMMMM
[342] M F F F M M M F F F F F M M M F F M M F F M M F F M M
[373] MMMFFFMMMMFFFMMFMMMMFFFFMMFMMFF
[466] F F F F M M M F F F F M M M F F F F M M F F M M M M M M F
[497] F M M M F F F F M F F F M M M M M M F M M M M F F F F M M F
[528] FMMMFFMMMMMFFFMFFMMFFMMFMMFMMM
```

```
[559] M M M M M M F M M M F M M M M F F F M M F F M M M M F F F F M
[590] M M M F F F F F F M M F F M M M F F F F F F F M M
[621] M M M F F F M M M F M M M F F F M M M F F F M M M F F F M M
[683] M M F F F F M M M F F M M M F F F F M M F F M F F M
[745] M M M M M F F F M M M F F F F F M M F F F F M M M
[776] M F F F F M M M F F M F F M M M F F F F F M M M M F
[807] M M M M M M M F F F F F F F F M M M F F M F F F M M M F F F
[869] MMFFFFFMMFFFFFMMFMFMFMMMMMFFF
Levels: F M
> glm(y~x1+x2+factor(x3))
Call: glm(formula = y \sim x1 + x2 + factor(x3))
Coefficients:
(Intercept)
                                 factor(x3)M
                  х1
                              х2
   15.3448
               0.4060
                          0.3215
                                     5.2260
Degrees of Freedom: 897 Total (i.e. Null); 894 Residual
Null Deviance:
                  11520
Residual Deviance: 4149 AIC: 3933
> summary(glm(y~x1+x2+factor(x3)))
glm(formula = y \sim x1 + x2 + factor(x3))
Deviance Residuals:
  Min
          10 Median
                        30
                             Max
-9.523 -1.440
              0.117
                     1.473
                            9.114
Coefficients:
          Estimate Std. Error t value Pr(>|t|)
(Intercept) 15.34476
                    2.74696
                             5.586 3.08e-08 ***
           0.40598
                    0.02921
                            13.900 < 2e-16 ***
x1
x2
           0.32150
                    0.03128 \quad 10.277 < 2e-16 ***
                    0.14401 \quad 36.289 < 2e-16 ***
factor(x3)M 5.22595
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
(Dispersion parameter for gaussian family taken to be 4.641121)
   Null deviance: 11515.1 on 897
                              degrees of freedom
Residual deviance: 4149.2 on 894 degrees of freedom
AIC: 3932.8
Number of Fisher Scoring iterations: 2
> x3<-relevel(factor(x3), ref="M")</pre>
```

```
> mod1 < -qlm(y \sim x1 + x2 + factor(x3))
> summary(mod1)
Call:
glm(formula = y \sim x1 + x2 + factor(x3))
Deviance Residuals:
           10 Median
  Min
                          30
                                Max
-9.523 -1.440 0.117
                       1.473
                               9.114
Coefficients:
           Estimate Std. Error t value Pr(>|t|)
(Intercept) 20.57071
                      2.74067
                               7.506 1.48e-13 ***
x1
            0.40598
                      0.02921 13.900 < 2e-16 ***
            0.32150
                      0.03128 \quad 10.277 < 2e-16 ***
x2
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
(Dispersion parameter for gaussian family taken to be 4.641121)
   Null deviance: 11515.1 on 897 degrees of freedom
Residual deviance: 4149.2 on 894 degrees of freedom
AIC: 3932.8
Number of Fisher Scoring iterations: 2
> install.packages("gdata")
--- Please select a CRAN mirror for use in this session ---
trying URL 'https://mirrors.sorengard.com/cran/bin/macosx/el-capitan/
contrib/3.4/gdata_2.18.0.tgz'
Content type 'application/octet-stream' length 1141723 bytes (1.1 MB)
downloaded 1.1 MB
The downloaded binary packages are in
        /var/folders/bt/640pc4590213xhch2 2lbx9w0000gn/T//RtmpD39iig/
downloaded packages
> library("gdata")
gdata: read.xls support for 'XLS' (Excel 97-2004) files
gdata: ENABLED.
gdata: read.xls support for 'XLSX' (Excel 2007+) files
gdata: ENABLED.
Attaching package: 'gdata'
The following object is masked from 'package:stats':
```

nobs

```
The following object is masked from 'package:utils':
    object.size
The following object is masked from 'package:base':
    startsWith
> read.xls("~/Desktop/heat.xlsx")
   No. X1 X2 X3 X4
       7 26 6 60
     1
                     78.5
                     74.3
2
     2
       1 29 15 52
3
     3 11 56
             8 20
                    104.3
4
     4 11 31
             8 47
                     87.6
5
     5
       7 52
             6 33
                     95.9
6
     6 11 55
             9 22
                    109.2
7
     7
        3 71 17
                 6
                    102.7
8
     8
       1 31 22 44
                     72.5
       2 54 18 22
9
     9
                     93.1
10
    10 21 47 4 26 1159.0
11
    11 1 40 23 34
                     83.8
    12 11 66
             9 12
12
                    113.3
13
    13 10 68 8 12
                    109.4
> library(leaps)
> data1=read.xls("~/Desktop/heat.xlsx")
data
> data1
   No. X1 X2 X3 X4
                        Υ
       7 26 6 60
1
     1
                     78.5
2
     2
       1 29 15 52
                     74.3
3
     3 11 56 8 20
                    104.3
4
     4 11 31
             8 47
                     87.6
5
     5 7 52
             6 33
                     95.9
6
     6 11 55
             9 22
                    109.2
7
     7
       3 71 17 6
                    102.7
8
     8
       1 31 22 44
                     72.5
9
     9
       2 54 18 22
                     93.1
10
    10 21 47 4 26 1159.0
       1 40 23 34
11
    11
                     83.8
12
    12 11 66 9 12
                    113.3
    13 10 68
             8 12
                    109.4
> leaps1<-regsubsets(Y~X1+X2+X3+X4,data=data1,nbest=10)</pre>
> summary(leaps1)
Subset selection object
Call: regsubsets.formula(Y \sim X1 + X2 + X3 + X4, data = data1, nbest =
10)
4 Variables (and intercept)
   Forced in Forced out
```

```
X1
      FALSE
                FALSE
X2
      FALSE
                FALSE
X3
      FALSE
                FALSE
Χ4
      FALSE
                FALSE
10 subsets of each size up to 4
Selection Algorithm: exhaustive
        X1 X2 X3 X4
  (1) "*" " " " " "
  (2)""""*"""
  (3)"""""*"
1
  (4)""*""""
1
  (1)"*"""*"""
2
  ( 2 ) "*" "*" " " "
2
  (3)"*""""*"
2
  (4)""*"""*"
2
  (5)"""*"*"
2
  (6)""*"*""
2
  (1)"*"""*""*"
3
    2 ) "*" "*" "*" "
3
  ( 3 ) "*" "*" " "*"
  (4)""*"*"*"
3
  ( 1 ) "*" "*" "*" "*"
> plot(leaps1, scale="r2")
> plot(leaps1, scale="adjr2")
> lm(Y\sim X1+X3)
Error in eval(predvars, data, env) : object 'Y' not found
> lm(Y~X1+X3,data=data1)
Call:
lm(formula = Y \sim X1 + X3, data = data1)
Coefficients:
                                Х3
(Intercept)
                    X1
   -635.31
                 62.28
                             29.42
> summary(lm(Y~X1+X3,data=data1))
lm(formula = Y \sim X1 + X3, data = data1)
Residuals:
   Min
            10 Median
                          30
                                 Max
-205.36 -180.84 -1.74 101.32 368.74
Coefficients:
           Estimate Std. Error t value Pr(>|t|)
(Intercept)
           -635.31
                       299.52 -2.121 0.05992 .
X1
             62.28
                        16.86
                               3.694
                                     0.00415 **
Х3
             29.42
                        15.48
                               1.900
                                     0.08658 .
```

```
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
Residual standard error: 194.6 on 10 degrees of freedom
Multiple R-squared: 0.6394, Adjusted R-squared:
F-statistic: 8.865 on 2 and 10 DF, p-value: 0.006098
> summary(lm(Y~X1+X3+X4,data=data1))
Call:
lm(formula = Y \sim X1 + X3 + X4, data = data1)
Residuals:
   Min
            1Q Median
                            30
                                   Max
-264.90 -147.20 -45.63
                       140.49
                                326.74
Coefficients:
           Estimate Std. Error t value Pr(>|t|)
(Intercept) -856.493
                       373.881 -2.291 0.04771 *
X1
             69.369
                        18.330
                                 3.784 0.00432 **
Х3
             34.507
                        16.326
                                 2.114 0.06370 .
                         3.650
Χ4
                                 0.990 0.34796
              3.614
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
Residual standard error: 194.8 on 9 degrees of freedom
Multiple R-squared: 0.6748, Adjusted R-squared: 0.5664
F-statistic: 6.226 on 3 and 9 DF, p-value: 0.01412
> plot(leaps1, scale="Cp")
> plot(leaps1, scale="bic")
> step(lm(Y~X1+X2+X3+X4), data=data1)
Error in eval(predvars, data, env) : object 'Y' not found
> librarv(MASS)
> step(lm(Y\simX1+X2+X3+X4), data=data1)
Error in eval(predvars, data, env) : object 'Y' not found
> data1
  No. X1 X2 X3 X4
     1 7 26 6 60
                    78.5
     2 1 29 15 52
2
                    74.3
3
     3 11 56 8 20
                   104.3
4
     4 11 31 8 47
                    87.6
5
     5 7 52 6 33
                    95.9
6
     6 11 55 9 22
                   109.2
7
    7
       3 71 17 6
                   102.7
8
     8
       1 31 22 44
                    72.5
9
    9 2 54 18 22
                    93.1
10
   10 21 47 4 26 1159.0
   11 1 40 23 34
11
                   83.8
   12 11 66
            9 12 113.3
12
13
   13 10 68 8 12 109.4
```

```
> step(lm(Y\simX1+X2+X3+X4), data=data1))
Error: unexpected ')' in "step(lm(Y~X1+X2+X3+X4), data=data1))"
> lm(Y~X1+X2+X3+X4), data=data1)
Error: unexpected ',' in "lm(Y~X1+X2+X3+X4),"
> lm(Y\sim X1+X2+X3+X4, data=data1)
Call:
lm(formula = Y \sim X1 + X2 + X3 + X4, data = data1)
Coefficients:
                                     X2
                                                                X4
(Intercept)
                       X1
                                                  Х3
   -4329.47
                   104.55
                                 35.95
                                               70.59
                                                             38.76
> step(lm(Y~X1+X2+X3+X4, data=data1))
Start: AIC=141.71
Y \sim X1 + X2 + X3 + X4
       Df Sum of Sq
                        RSS
                               AIC
- X2
        1
              14764 341378 140.28
- X4
        1
              17881 344496 140.40
- X3
              52338 378952 141.64
<none>
                     326614 141.71
- X1
        1
             117910 444524 143.72
Step: AIC=140.29
Y \sim X1 + X3 + X4
       Df Sum of Sq
                        RSS
              37189 378567 139.63
- X4
<none>
                     341378 140.28
              169447 510825 143.53
- X3
        1
- X1
        1
             543234 884612 150.66
Step: AIC=139.63
Y \sim X1 + X3
       Df Sum of Sq
                        RSS
                     378567 139.63
<none>
– X3
        1
              136710 515278 141.64
- X1
        1
             516693 895261 148.82
Call:
lm(formula = Y \sim X1 + X3, data = data1)
Coefficients:
(Intercept)
                       X1
                                     Х3
    -635.31
                    62.28
                                 29.42
```