diabetes1.R

siddh

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```
diabetes <- read.csv("C:/Users/siddh/Desktop/Rutgers Spring 19/MULTI/diabetes.csv")

#columns

#Pregnancies: Number of times pregnant

#GlucosePlasma glucose concentration a 2 hours in an oral glucose tolerance test

#BloodPressureDiastolic blood pressure (mm Hg)

#SkinThicknessTriceps skin fold thickness (mm)

#Insulin2-Hour serum insulin (mu U/ml)

#BMIBody mass index (weight in kg/(height in m)^2)

#DiabetesPedigreeFunctionDiabetes pedigree function

#AgeAge (years)

#OutcomeClass variable (0 or 1) 268 of 768 are 1, the others are 0

head(diabetes)
```

```
## Pregnancies Glucose BloodPressure SkinThickness Insulin BMI
## 1
      6 148 72 35 0 33.6
                         66
## 2
          1
               85
                                    29
                                           0 26.6
          8 183
## 3
                         64
                                     0
                                           0 23.3
         1 89
0 137
                         66
                                    23
                                          94 28.1
## 4
                                    35 168 43.1
## 5
         5 116
## 6
                          74
                                     0
                                          0 25.6
## DiabetesPedigreeFunction Age Outcome
## 1
               0.627 50 1
## 2
                 0.351 31
                 0.672 32
0.167 21
2.288 33
## 3
                             1
## 4
## 5
                 0.201 30
## 6
```

structure (diabetes)

##	Pregnancies	Glucose	BloodPressure	SkinThickness	Insulin	BMI
## 1	6	148	72	35		33.6
## 2	1	85	66	29	0	26.6
## 3	8	183	64	0	0	23.3
## 4	1	89	66	23	94	28.1
## 5	0	137	40	35	168	43.1
## 6	5	116	74	0	0	25.6
## 7	3	78	50	32	88	31.0
## 8	10	115	0	0	0	35.3
## 9	2	197	70	45	543	30.5
## 10	8	125	96	0	0	0.0
## 11	4	110	92	0	0	37.6
## 12	10	168	74	0	0	38.0
## 13	10	139	80	0	0	27.1
## 14	1	189	60	23	846	30.1
## 15	5	166	72	19	175	25.8
## 16	7	100	0	0	0	30.0
## 17	0	118	84	47	230	45.8
## 18	7	107	74	0	0	29.6
## 19	1	103	30	38	83	43.3
## 20	1	115	70	30	96	34.6
## 21	3	126	88	41	235	39.3
## 22	8	99	84	0	0	35.4
## 23	7	196	90	0	0	39.8
## 24	9	119	80	35		29.0
## 25	11	143	94	33	146	36.6
## 26	10	125	70	26	115	31.1
## 27	7	147	76	0	0	39.4
## 28	1	97	66	15		23.2
## 29	13	145	82	19		22.2
## 30	5	117	92	0	0	34.1
## 31	5	109	75	26	0	36.0
## 32	3	158	76	36		31.6

## 33	3	88	58	11	54 24.8
## 34	6	92	92	0	0 19.9
## 35	10	122	78	31	0 27.6
## 36	4	103	60	33	192 24.0
## 37	11	138	76	0	0 33.2
					0 33.2
## 38	9	102	76	37	
## 39	2	90	68	42	0 38.2
## 40	4	111	72	47	207 37.1
## 41	3	180	64	25	70 34.0
## 42	7	133	84	0	0 40.2
## 43	7	106	92	18	0 22.7
## 44	9	171	110	24	240 45.4
## 45	7	159	64	0	0 27.4
## 46	0	180	66	39	0 42.0
## 47	1	146	56	0	0 29.7
## 48	2	71	70	27	0 28.0
## 49	7	103	66	32	0 39.1
## 50	7	105	0	0	0 0.0
## 51	1	103	80	11	82 19.4
## 52	1	101	50	15	36 24.2
## 53	5	88	66	21	23 24.4
## 54	8	176	90	34	300 33.7
## 55	7	150	66	42	342 34.7
## 56	1	73	50	10	0 23.0
## 57	7	187	68	39	304 37.7
## 58	0	100	88	60	110 46.8
## 59	0	146	82	0	0 40.5
## 60	0	105	64	41	142 41.5
## 61	2	84	0	0	0 0.0
## 62	8	133	72	0	0 32.9
## 63	5	44	62	0	0 25.0
## 64	2	141	58	34	128 25.4
## 65	7	114	66	0	0 32.8
## 66	5	99	74	27	0 29.0
## 67	0	109	88	30	0 32.5
## 68	2	109	92	0	0 42.7
## 69	1	95	66	13	38 19.6
## 70	4	146	85	27	100 28.9
## 71	2	100	66	20	90 32.9
## 72	5	139	64	35	140 28.6
## 73	13	126	90	0	0 43.4
## 74	4	129	86	20	270 35.1
## 75	1	79	75	30	0 32.0
## 76	1	0	48	20	0 32.0
## 77	7	62	78	0	0 32.6
## 77					0 32.6
	5	95	72	33	
## 79	0	131	0	0	0 43.2
## 80	2	112	66	22	0 25.0
## 81	3	113	44	13	0 22.4
## 82	2	74	0	0	0 0.0
## 83	7	83	78	26	71 29.3
## 84	0	101	65	28	0 24.6
## 85	5	137	108	0	0 48.8
## 86	2	110	74	29	125 32.4
## 87	13	106	72	54	0 36.6
## 88	2	100	68	25	71 38.5
## 89	15	136	70	32	110 37.1
## 90	1	107	68	19	0 26.5
## 91	1	80	55	0	0 19.1
## 92	4	123	80	15	176 32.0
## 93	7	81	78	40	48 46.7
## 93	4	134	70	0	0 23.8
## 94	2		82		64 24.7
		142		18	
## 96	6	144	72	27	228 33.9
## 97	2	92	62	28	0 31.6
## 98	1	71	48	18	76 20.4
## 99	6	93	50	30	64 28.7
## 100		122	90	51	220 49.7
## 101		163	72	0	0 39.0
## 102		151	60	0	0 26.1
## 103		125	96	0	0 22.5
## 104	1	81	72	18	40 26.6
## 105	5 2	85	65	0	0 39.6

	-	106	5.6	0.0	150 00 5
## 106	1	126	56	29	152 28.7
## 107	1	96	122	0	0 22.4
## 108	4	144	58	28	140 29.5
## 109	3	83	58	31	18 34.3
## 110	0	95	85	25	36 37.4
## 111	3	171	72	33	135 33.3
## 112	8	155	62	26	495 34.0
## 113	1	89	76	34	37 31.2
## 114	4	76	62	0	0 34.0
## 115	7	160	54	32	175 30.5
## 116	4	146	92	0	0 31.2
## 117	5	124	74	0	0 34.0
## 118	5	78	48	0	0 33.7
## 119	4	97	60	23	0 28.2
## 120	4	99	76	15	51 23.2
## 121	0	162	76	56	100 53.2
## 122	6	111	64	39	0 34.2
## 123	2	107	74	30	100 33.6
## 124	5	132	80	0	0 26.8
## 125	0	113	76	0	0 33.3
## 126	1	88	30	42	99 55.0
## 127	3	120	70	30	135 42.9
## 128	1	118	58	36	94 33.3
## 129	1	117	88	24	145 34.5
## 130	0	105	84	0	0 27.9
## 131	4	173	70	14	168 29.7
## 132	9	122	56	0	0 33.3
## 133	3	170	64	37	225 34.5
## 134	8	84	74	31	0 38.3
## 135	2	96	68	13	49 21.1
## 136	2	125	60	20	140 33.8
## 137	0	100	70	26	50 30.8
## 138	0	93	60	25	92 28.7
## 139	0	129	80	0	0 31.2
## 140	5	105	72	29	325 36.9
## 141	3	128	78	0	0 21.1
## 142	5	106	82	30	0 39.5
## 143	2	108	52	26	63 32.5
## 144	10	108	66	0	0 32.4
## 145	4	154	62	31	284 32.8
## 146	0	102	75	23	0 0.0
## 147	9	57	80	37	0 32.8
## 148	2	106	64	35	119 30.5
## 149	5	147	78	0	0 33.7
## 150	2	90	70	17	0 27.3
	1		74	50	204 37.4
		136			
## 152	4	114	65	0	0 21.9
## 153	9	156	86	28	155 34.3
## 154	1	153	82	42	485 40.6
## 155	8	188	78	0	0 47.9
## 156	7	152	88	44	0 50.0
## 157	2	99	52	15	94 24.6
## 158	1	109	56	21	135 25.2
## 159		8.8	7.4	19	53 29.0
## 159 ## 160	2	88 163	74 72	19 41	53 29.0 114 40.9
## 160	2 17	163	72	41	114 40.9
## 160 ## 161	2 17 4	163 151	72 90	41 38	114 40.9 0 29.7
## 160 ## 161 ## 162	2 17 4 7	163 151 102	72 90 74	41 38 40	114 40.9 0 29.7 105 37.2
## 160 ## 161 ## 162 ## 163	2 17 4 7 0	163 151 102 114	72 90 74 80	41 38 40 34	114 40.9 0 29.7 105 37.2 285 44.2
## 160 ## 161 ## 162 ## 163 ## 164	2 17 4 7 0 2	163 151 102 114 100	72 90 74 80 64	41 38 40 34 23	114 40.9 0 29.7 105 37.2 285 44.2 0 29.7
## 160 ## 161 ## 162 ## 163	2 17 4 7 0	163 151 102 114 100 131	72 90 74 80	41 38 40 34	114 40.9 0 29.7 105 37.2 285 44.2 0 29.7 0 31.6
## 160 ## 161 ## 162 ## 163 ## 164	2 17 4 7 0 2	163 151 102 114 100	72 90 74 80 64	41 38 40 34 23	114 40.9 0 29.7 105 37.2 285 44.2 0 29.7
## 160 ## 161 ## 162 ## 163 ## 164 ## 165	2 17 4 7 0 2	163 151 102 114 100 131	72 90 74 80 64 88	41 38 40 34 23 0	114 40.9 0 29.7 105 37.2 285 44.2 0 29.7 0 31.6
## 160 ## 161 ## 162 ## 163 ## 164 ## 165 ## 166	2 17 4 7 0 2 0 6	163 151 102 114 100 131	72 90 74 80 64 88 74	41 38 40 34 23 0	114 40.9 0 29.7 105 37.2 285 44.2 0 29.7 0 31.6 156 29.9
## 160 ## 161 ## 162 ## 163 ## 164 ## 165 ## 166 ## 167	2 17 4 7 0 2 0 6 3 4	163 151 102 114 100 131 104 148	72 90 74 80 64 88 74 66	41 38 40 34 23 0 18 25	114 40.9 0 29.7 105 37.2 285 44.2 0 29.7 0 31.6 156 29.9 0 32.5 0 29.6
## 160 ## 161 ## 162 ## 163 ## 164 ## 165 ## 166 ## 167 ## 168 ## 169	2 17 4 7 0 2 0 6 3 4	163 151 102 114 100 131 104 148 120	72 90 74 80 64 88 74 66 68	41 38 40 34 23 0 18 25 0	114 40.9 0 29.7 105 37.2 285 44.2 0 29.7 0 31.6 156 29.9 0 32.5 0 29.6 0 31.9
## 160 ## 161 ## 162 ## 163 ## 164 ## 165 ## 166 ## 167 ## 168 ## 169 ## 170	2 17 4 7 0 2 0 6 3 4 4 3	163 151 102 114 100 131 104 148 120 110	72 90 74 80 64 88 74 66 68 66	41 38 40 34 23 0 18 25 0 0	114 40.9 0 29.7 105 37.2 285 44.2 0 29.7 0 31.6 156 29.9 0 32.5 0 29.6 0 31.9 78 28.4
## 160 ## 161 ## 162 ## 163 ## 164 ## 165 ## 166 ## 167 ## 168 ## 170 ## 171	2 17 4 7 0 2 0 6 3 4 4 3 6	163 151 102 114 100 131 104 148 120 110 111	72 90 74 80 64 88 74 66 68 66 90 82	41 38 40 34 23 0 18 25 0 0	114 40.9 0 29.7 105 37.2 285 44.2 0 29.7 0 31.6 156 29.9 0 32.5 0 29.6 0 31.9 78 28.4 0 30.8
## 160 ## 161 ## 162 ## 163 ## 164 ## 165 ## 166 ## 167 ## 168 ## 170 ## 171 ## 171	2 17 4 7 0 2 0 6 3 4 4 3 6 6	163 151 102 114 100 131 104 148 120 110 111 102	72 90 74 80 64 88 74 66 68 66 90 82	41 38 40 34 23 0 18 25 0 0 12 0	114 40.9 0 29.7 105 37.2 285 44.2 0 29.7 0 31.6 156 29.9 0 32.5 0 29.6 0 31.9 78 28.4 0 30.8 130 35.4
## 160 ## 161 ## 162 ## 163 ## 164 ## 165 ## 166 ## 167 ## 168 ## 170 ## 171 ## 171 ## 172 ## 173	2 17 4 7 0 2 0 6 3 4 4 3 6 6 2	163 151 102 114 100 131 104 148 120 110 111 102 134 87	72 90 74 80 64 88 74 66 68 66 90 82 70	41 38 40 34 23 0 18 25 0 0 12 0 23 23	114 40.9 0 29.7 105 37.2 285 44.2 0 29.7 0 31.6 156 29.9 0 32.5 0 29.6 0 31.9 78 28.4 0 30.8 130 35.4 0 28.9
## 160 ## 161 ## 162 ## 163 ## 164 ## 165 ## 166 ## 167 ## 168 ## 170 ## 171 ## 171	2 17 4 7 0 2 0 6 3 4 4 3 6 6	163 151 102 114 100 131 104 148 120 110 111 102	72 90 74 80 64 88 74 66 68 66 90 82	41 38 40 34 23 0 18 25 0 0 12 0	114 40.9 0 29.7 105 37.2 285 44.2 0 29.7 0 31.6 156 29.9 0 32.5 0 29.6 0 31.9 78 28.4 0 30.8 130 35.4
## 160 ## 161 ## 162 ## 163 ## 164 ## 165 ## 166 ## 167 ## 168 ## 170 ## 171 ## 171 ## 172 ## 173	2 17 4 7 0 2 0 6 3 4 4 3 6 6 2	163 151 102 114 100 131 104 148 120 110 111 102 134 87 79	72 90 74 80 64 88 74 66 68 66 90 82 70	41 38 40 34 23 0 18 25 0 0 12 0 23 23	114 40.9 0 29.7 105 37.2 285 44.2 0 29.7 0 31.6 156 29.9 0 32.5 0 29.6 0 31.9 78 28.4 0 30.8 130 35.4 0 28.9
## 160 ## 161 ## 162 ## 163 ## 164 ## 165 ## 166 ## 170 ## 170 ## 171 ## 172 ## 173 ## 174	2 17 4 7 0 2 0 6 3 4 4 3 6 6 2	163 151 102 114 100 131 104 148 120 110 111 102 134 87	72 90 74 80 64 88 74 66 68 66 90 82 70 0	41 38 40 34 23 0 18 25 0 0 12 0 23 23 42	114 40.9 0 29.7 105 37.2 285 44.2 0 29.7 0 31.6 156 29.9 0 32.5 0 29.6 0 31.9 78 28.4 0 30.8 130 35.4 0 28.9 48 43.5
## 160 ## 161 ## 162 ## 163 ## 164 ## 165 ## 166 ## 167 ## 169 ## 170 ## 171 ## 172 ## 173 ## 174 ## 175	2 17 4 7 0 2 0 6 3 4 4 3 6 6 2 1 2	163 151 102 114 100 131 104 148 120 110 111 102 134 87 79	72 90 74 80 64 88 74 66 68 66 90 82 70 0	41 38 40 34 23 0 18 25 0 0 12 0 23 23 42 24	114 40.9 0 29.7 105 37.2 285 44.2 0 29.7 0 31.6 156 29.9 0 32.5 0 29.6 0 31.9 78 28.4 0 30.8 130 35.4 0 28.9 48 43.5 55 29.7
## 160 ## 161 ## 162 ## 163 ## 164 ## 165 ## 166 ## 167 ## 169 ## 170 ## 171 ## 172 ## 173 ## 174 ## 175 ## 176	2 17 4 7 0 2 0 6 3 4 4 3 6 6 2 1 2 8	163 151 102 114 100 131 104 148 120 110 111 102 134 87 79 75 179	72 90 74 80 64 88 74 66 68 66 90 82 70 0 60 64	41 38 40 34 23 0 18 25 0 0 12 0 23 23 42 24 42	114 40.9 0 29.7 105 37.2 285 44.2 0 29.7 0 31.6 156 29.9 0 32.5 0 29.6 0 31.9 78 28.4 0 30.8 130 35.4 0 28.9 48 43.5 55 29.7 130 32.7

## 1/0	U	129	TTU	40	130 0/.1	
## 179	5	143	78	0	0 45.0	
## 180	5	130	82	0	0 39.1	
## 181	6	87	80	0	0 23.2	
## 182	0	119	64	18	92 34.9	
## 183	1	0	74	20	23 27.7	
## 184	5	73	60	0	0 26.8	
## 185	4	141	7.4	0	0 27.6	
## 186	7	194	68	28	0 35.9	
## 187	8	181	68	36	495 30.1	
## 188	1	128	98	41	58 32.0	
## 189	8	109	76	39	114 27.9	
## 190	5	139	80	35	160 31.6	
## 191	3	111	62	0	0 22.6	
## 192	9	123	70	44	94 33.1	
## 193	7	159	66	0	0 30.4	
## 194	11	135	0	0	0 52.3	
## 195	8	85	55	20	0 24.4	
## 196	5	158	8 4	41	210 39.4	
## 197	1	105	58	0	0 24.3	
## 198	3	107	62	13	48 22.9	
## 199	4	109	64	44	99 34.8	
## 200	4	148	60	27	318 30.9	
## 201	0	113	80	16	0 31.0	
## 202	1	138	82	0	0 40.1	
## 203	0	108	68	20	0 27.3	
## 204	2	99	70	16	44 20.4	
## 205	6	103	72	32	190 37.7	
## 206	5	111	72	28	0 23.9	
## 207	8	196	76	29	280 37.5	
## 208	5	162	104	0	0 37.7	
## 209	1	96	64	27	87 33.2	
## 210	7	184	84	33	0 35.5	
## 211	2	81	60	22	0 27.7	
## 212	0	147	85	54	0 42.8	
## 213	7	179	95	31	0 34.2	
## 214	0	140	65	26	130 42.6	
	0	110	0.2	2.2		
## 215	9	112	82	32	175 34.2	
## 216	12	151	70	40	271 41.8	
## 217	5	109	62	41	129 35.8	
## 218	6	125	68	30	120 30.0	
## 219	5	85	7 4	22	0 29.0	
## 220		112	66		0 37.8	
	5			0		
## 221	0	177	60	29	478 34.6	
## 222	2	158	90	0	0 31.6	
## 223	7	119	0	0	0 25.2	
## 224	7	142	60	33	190 28.8	
## 225	1	100	66	15	56 23.6	
## 226	1	87	78	27	32 34.6	
## 227	0	101	76	0	0 35.7	
		162				
## 228	3		52	38	0 37.2	
## 229	4	197	70	39	744 36.7	
## 230	0	117	80	31	53 45.2	
## 221	Л	142	86	0	0 44.0	
## 231	4				270 46 2	
## 231 ## 232	4 6	134	80	37	370 46.2	
## 232	6	134				
## 232 ## 233	6 1	134 79	80	25	37 25.4	
## 232 ## 233 ## 234	6	134			37 25.4 0 35.0	
## 232 ## 233	6 1	134 79	80	25	37 25.4	
## 232 ## 233 ## 234 ## 235	6 1 4 3	134 79 122 74	80 68 68	25 0 28	37 25.4 0 35.0 45 29.7	
## 232 ## 233 ## 234 ## 235 ## 236	6 1 4 3 4	134 79 122 74 171	80 68 68 72	25 0 28 0	37 25.4 0 35.0 45 29.7 0 43.6	
## 232 ## 233 ## 234 ## 235	6 1 4 3	134 79 122 74	80 68 68	25 0 28	37 25.4 0 35.0 45 29.7	
## 232 ## 233 ## 234 ## 235 ## 236	6 1 4 3 4	134 79 122 74 171	80 68 68 72	25 0 28 0	37 25.4 0 35.0 45 29.7 0 43.6	
## 232 ## 233 ## 234 ## 235 ## 236 ## 237 ## 238	6 1 4 3 4 7 0	134 79 122 74 171 181 179	80 68 68 72 84 90	25 0 28 0 21 27	37 25.4 0 35.0 45 29.7 0 43.6 192 35.9 0 44.1	
## 232 ## 233 ## 234 ## 235 ## 236 ## 237 ## 238 ## 239	6 1 4 3 4 7 0 9	134 79 122 74 171 181 179 164	80 68 68 72 84 90 84	25 0 28 0 21 27 21	37 25.4 0 35.0 45 29.7 0 43.6 192 35.9 0 44.1 0 30.8	
## 232 ## 233 ## 234 ## 235 ## 236 ## 237 ## 238	6 1 4 3 4 7 0	134 79 122 74 171 181 179	80 68 68 72 84 90	25 0 28 0 21 27	37 25.4 0 35.0 45 29.7 0 43.6 192 35.9 0 44.1	
## 232 ## 233 ## 234 ## 235 ## 236 ## 237 ## 238 ## 239 ## 240	6 1 4 3 4 7 0 9	134 79 122 74 171 181 179 164 104	80 68 68 72 84 90 84 76	25 0 28 0 21 27 21 0	37 25.4 0 35.0 45 29.7 0 43.6 192 35.9 0 44.1 0 30.8 0 18.4	
## 232 ## 233 ## 234 ## 235 ## 236 ## 237 ## 238 ## 239 ## 240 ## 241	6 1 4 3 4 7 0 9 0	134 79 122 74 171 181 179 164 104 91	80 68 68 72 84 90 84 76	25 0 28 0 21 27 21 0 24	37 25.4 0 35.0 45 29.7 0 43.6 192 35.9 0 44.1 0 30.8 0 18.4 0 29.2	
## 232 ## 233 ## 234 ## 235 ## 236 ## 237 ## 238 ## 240 ## 241 ## 242	6 1 4 3 4 7 0 9	134 79 122 74 171 181 179 164 104 91	80 68 68 72 84 90 84 76 64	25 0 28 0 21 27 21 0	37 25.4 0 35.0 45 29.7 0 43.6 192 35.9 0 44.1 0 30.8 0 18.4	
## 232 ## 233 ## 234 ## 235 ## 236 ## 237 ## 238 ## 239 ## 240 ## 241	6 1 4 3 4 7 0 9 0	134 79 122 74 171 181 179 164 104 91	80 68 68 72 84 90 84 76	25 0 28 0 21 27 21 0 24	37 25.4 0 35.0 45 29.7 0 43.6 192 35.9 0 44.1 0 30.8 0 18.4 0 29.2	
## 232 ## 233 ## 234 ## 235 ## 236 ## 237 ## 238 ## 240 ## 241 ## 242 ## 243	6 1 4 3 4 7 0 9 0 1 4 3	134 79 122 74 171 181 179 164 104 91 91	80 68 68 72 84 90 84 76 64 70	25 0 28 0 21 27 21 0 24 32 0	37 25.4 0 35.0 45 29.7 0 43.6 192 35.9 0 44.1 0 30.8 0 18.4 0 29.2 88 33.1 0 25.6	
## 232 ## 233 ## 234 ## 235 ## 236 ## 237 ## 238 ## 240 ## 241 ## 242 ## 243 ## 244	6 1 4 3 4 7 0 9 0 1 4 3 6	134 79 122 74 171 181 179 164 104 91 91 139 119	80 68 68 72 84 90 84 76 64 70 54	25 0 28 0 21 27 21 0 24 32 0 22	37 25.4 0 35.0 45 29.7 0 43.6 192 35.9 0 44.1 0 30.8 0 18.4 0 29.2 88 33.1 0 25.6 176 27.1	
## 232 ## 233 ## 234 ## 235 ## 236 ## 237 ## 238 ## 240 ## 241 ## 242 ## 243	6 1 4 3 4 7 0 9 0 1 4 3	134 79 122 74 171 181 179 164 104 91 91	80 68 68 72 84 90 84 76 64 70	25 0 28 0 21 27 21 0 24 32 0	37 25.4 0 35.0 45 29.7 0 43.6 192 35.9 0 44.1 0 30.8 0 18.4 0 29.2 88 33.1 0 25.6	
## 232 ## 233 ## 234 ## 235 ## 236 ## 237 ## 238 ## 240 ## 241 ## 242 ## 244 ## 244	6 1 4 3 4 7 0 9 0 1 4 3 6 2	134 79 122 74 171 181 179 164 104 91 91 139 119	80 68 68 72 84 90 84 76 64 70 54 50	25 0 28 0 21 27 21 0 24 32 0 22 35	37 25.4 0 35.0 45 29.7 0 43.6 192 35.9 0 44.1 0 30.8 0 18.4 0 29.2 88 33.1 0 25.6 176 27.1 194 38.2	
## 232 ## 233 ## 234 ## 235 ## 236 ## 237 ## 238 ## 240 ## 241 ## 242 ## 244 ## 245 ## 246	6 1 4 3 4 7 0 9 0 1 4 3 6 2 9	134 79 122 74 171 181 179 164 104 91 91 139 119 146 184	80 68 68 72 84 90 84 76 64 70 54 50 76 85	25 0 28 0 21 27 21 0 24 32 0 22 35	37 25.4 0 35.0 45 29.7 0 43.6 192 35.9 0 44.1 0 30.8 0 18.4 0 29.2 88 33.1 0 25.6 176 27.1 194 38.2 0 30.0	
## 232 ## 233 ## 235 ## 236 ## 237 ## 238 ## 240 ## 241 ## 242 ## 244 ## 244 ## 245 ## 246 ## 247	6 1 4 3 4 7 0 9 0 1 4 3 6 2 9	134 79 122 74 171 181 179 164 104 91 91 139 119 146 184 122	80 68 68 72 84 90 84 76 64 70 54 50 76 85	25 0 28 0 21 27 21 0 24 32 0 22 35 15 0	37 25.4 0 35.0 45 29.7 0 43.6 192 35.9 0 44.1 0 30.8 0 18.4 0 29.2 88 33.1 0 25.6 176 27.1 194 38.2 0 30.0 0 31.2	
## 232 ## 233 ## 234 ## 235 ## 236 ## 237 ## 238 ## 240 ## 241 ## 242 ## 244 ## 245 ## 246	6 1 4 3 4 7 0 9 0 1 4 3 6 2 9	134 79 122 74 171 181 179 164 104 91 91 139 119 146 184	80 68 68 72 84 90 84 76 64 70 54 50 76 85	25 0 28 0 21 27 21 0 24 32 0 22 35	37 25.4 0 35.0 45 29.7 0 43.6 192 35.9 0 44.1 0 30.8 0 18.4 0 29.2 88 33.1 0 25.6 176 27.1 194 38.2 0 30.0 0 31.2	
## 232 ## 233 ## 234 ## 235 ## 236 ## 237 ## 240 ## 241 ## 242 ## 244 ## 244 ## 244 ## 244 ## 245	6 1 4 3 4 7 0 9 0 1 4 3 6 2 9 10 0	134 79 122 74 171 181 179 164 104 91 91 139 119 146 184 122 165	80 68 68 72 84 90 84 76 64 70 54 50 76 85 68	25 0 28 0 21 27 21 0 24 32 0 22 35 15 0 33	37 25.4 0 35.0 45 29.7 0 43.6 192 35.9 0 44.1 0 30.8 0 18.4 0 29.2 88 33.1 0 25.6 176 27.1 194 38.2 0 30.0 0 31.2 680 52.3	
## 232 ## 233 ## 235 ## 236 ## 237 ## 238 ## 240 ## 241 ## 242 ## 244 ## 244 ## 245 ## 246 ## 247 ## 248 ## 249	6 1 4 3 4 7 0 9 0 1 4 3 6 2 9 10 0 9	134 79 122 74 171 181 179 164 104 91 91 139 119 146 184 122 165 124	80 68 68 72 84 90 84 76 64 70 54 50 76 85 68 90 70	25 0 28 0 21 27 21 0 24 32 0 22 35 15 0 33 33	37 25.4 0 35.0 45 29.7 0 43.6 192 35.9 0 44.1 0 30.8 0 18.4 0 29.2 88 33.1 0 25.6 176 27.1 194 38.2 0 30.0 0 31.2 680 52.3 402 35.4	
## 232 ## 233 ## 234 ## 235 ## 236 ## 237 ## 240 ## 241 ## 242 ## 244 ## 244 ## 244 ## 244 ## 245	6 1 4 3 4 7 0 9 0 1 4 3 6 2 9 10 0	134 79 122 74 171 181 179 164 104 91 91 139 119 146 184 122 165	80 68 68 72 84 90 84 76 64 70 54 50 76 85 68	25 0 28 0 21 27 21 0 24 32 0 22 35 15 0 33	37 25.4 0 35.0 45 29.7 0 43.6 192 35.9 0 44.1 0 30.8 0 18.4 0 29.2 88 33.1 0 25.6 176 27.1 194 38.2 0 30.0 0 31.2 680 52.3	

##	251	9	106	52	0	Λ	31.2
	252	2	129	84	0		28.0
	253	2	90	80	14		24.4
	254	0	86	68	32		35.8
	255	12	92	62	7	258	
	256	1	113	64	35		33.6
	257	3	111	56	39		30.1
	258	2	114	68	22		28.7
	259	1	193	50	16	375	
	260	11	155	76	28	150	
	261	3	191	68	15	130	
	262	3	141	0	0		30.0
##	263	4	95	70	32	0	32.1
##	264	3	142	80	15	0	32.4
##	265	4	123	62	0	0	32.0
##	266	5	96	74	18	67	33.6
##	267	0	138	0	0	0	36.3
	268	2	128	64	42		40.0
	269	0	102	52	0		25.1
	270	2	146	0	0		27.5
	271	10	101	86	37		45.6
	272	2	101	62	32		25.2
	273	3	122	78	0		23.0
	274	1	71	78	50		33.2
	275	13	106	70	0		34.2
	276	2	100	70	52		40.5
##	277	7	106	60	24	0	26.5
##	278	0	104	64	23	116	
##	279	5	114	74	0	0	24.9
##	280	2	108	62	10	278	
	281	0	146	70	0		37.9
	282	10	129	76	28	122	
	283	7	133	88	15	155	
	284	7	161	86	0		30.4
	285	2	108	80	0		27.0
	286	7	136	74	26	135	
	287	5	155	84	44	545	
	288	1	119	86	39	220	
##	289	4	96	56	17	49	20.8
	290	5	108	72	43		36.1
##	291	0	78	88	29	40	36.9
	292	0	107	62	30		36.6
	293	2	128	78	37		43.3
	294	1	128	48	45	194	
	295	0	161	50	0		21.9
	295		151	62		120	
		6			31		
	297	2	146	70	38	360	
	298	0	126	84	29		30.7
	299	14	100	78	25	184	
	300	8	112	72	0		23.6
##	301	0	167	0	0		32.3
##	302	2	144	58	33	135	
	303	5	77	82	41		35.8
	304	5	115	98	0		52.9
	305	3	150	76	0		21.0
				76			
	306	2	120		37		39.7
	307	10	161	68	23	132	
	308	0	137	68	14	148	
	309	0	128	68	19	180	
	310	2	124	68	28	205	
##	311	6	80	66	30	0	26.2
	312	0	106	70	37	148	
	313	2	155	74	17		26.6
	314	3	113	50	10		29.5
	315	7	109	80	31		35.9
	316	2	112	68	22		34.1
	317	3	99	80	11		19.3
	318	3	182	74	0		30.5
	319	3	115	66	39	140	
	320	6	194	78	0		23.5
##	321	4	129	60	12	231	
##	322	3	112	74	30	0	31.6
	323	0	124	70	20		27.4
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	1.0	150	0.0	2.2	00.06.0
## 324	13	152	90	33	29 26.8
## 325	2	112	75	32	0 35.7
## 326	1	157	72	21	168 25.6
## 327	1	122	64	32	156 35.1
## 328	10	179	70	0	0 35.1
## 329	2	102	86	36	120 45.5
## 330	6	105	70	32	68 30.8
## 331	8	118	72	19	0 23.1
	2				
## 332		87	58	16	52 32.7
## 333	1	180	0	0	0 43.3
## 334	12	106	80	0	0 23.6
## 335	1	95	60	18	58 23.9
## 336	0	165	76	43	255 47.9
## 337	0	117	0	0	0 33.8
## 338	5	115	76	0	0 31.2
## 339	9	152	78	34	171 34.2
## 340	7	178	84	0	0 39.9
## 341	1	130	70	13	105 25.9
## 342	1	95	74	21	73 25.9
## 343	1	0	68	35	0 32.0
## 344	5	122	86	0	0 34.7
## 345	8	95	72	0	0 36.8
## 346	8	126	88	36	108 38.5
## 347	1	139	46	19	83 28.7
## 348	3	116	0	0	0 23.5
## 349	3	99	62	19	74 21.8
## 350	5	0	80	32	0 41.0
## 351	4	92	80	0	0 42.2
## 352	4	137	84	0	0 31.2
## 353	3	61	82	28	0 34.4
## 354	1	90	62	12	43 27.2
## 355	3	90	78	0	0 42.7
## 356	9	165	88	0	0 30.4
## 357	1	125	50	40	167 33.3
## 358	13	129	0	30	0 39.9
## 359	12	88	74	40	54 35.3
## 360	1	196	76	36	249 36.5
## 361	5	189	64	33	325 31.2
## 362	5	158	70		0 29.8
				0	
## 363	5	103	108	37	0 39.2
## 364	4	146	78	0	0 38.5
## 365	4	147	74	25	293 34.9
## 366	5	99	54	28	83 34.0
## 367	6	124	72	0	0 27.6
## 368	0	101	64	17	0 21.0
## 369	3	81	86	16	66 27.5
## 370	1	133	102	28	140 32.8
## 371	3	173	82	48	465 38.4
## 372	0	118	64	23	89 0.0
		84			66 35.8
## 373	0		64	22	
## 374	2	105	58	40	94 34.9
	_	4 0 0	e -		4 5 0 5 5
## 375	2	122	52	43	158 36.2
## 376	12	140	82	43	325 39.2
## 376	12	140	82	43	325 39.2
## 376 ## 377	12 0	140 98	82 82	43 15	325 39.2 84 25.2
## 376 ## 377 ## 378	12 0 1	140 98 87	82 82 60	43 15 37	325 39.2 84 25.2 75 37.2
## 376 ## 377 ## 378 ## 379 ## 380	12 0 1 4	140 98 87 156	82 82 60 75	43 15 37 0 39	325 39.2 84 25.2 75 37.2 0 48.3 72 43.4
## 376 ## 377 ## 378 ## 379 ## 380 ## 381	12 0 1 4 0	140 98 87 156 93 107	82 82 60 75 100 72	43 15 37 0 39 30	325 39.2 84 25.2 75 37.2 0 48.3 72 43.4 82 30.8
## 376 ## 377 ## 378 ## 379 ## 380 ## 381 ## 382	12 0 1 4 0 1	140 98 87 156 93 107 105	82 82 60 75 100 72 68	43 15 37 0 39 30 22	325 39.2 84 25.2 75 37.2 0 48.3 72 43.4 82 30.8 0 20.0
## 376 ## 377 ## 378 ## 380 ## 381 ## 382 ## 383	12 0 1 4 0 1	140 98 87 156 93 107 105	82 82 60 75 100 72 68 60	43 15 37 0 39 30 22 8	325 39.2 84 25.2 75 37.2 0 48.3 72 43.4 82 30.8 0 20.0 182 25.4
## 376 ## 377 ## 378 ## 380 ## 381 ## 382 ## 383 ## 384	12 0 1 4 0 1 0	140 98 87 156 93 107 105 109	82 82 60 75 100 72 68 60	43 15 37 0 39 30 22 8 18	325 39.2 84 25.2 75 37.2 0 48.3 72 43.4 82 30.8 0 20.0 182 25.4 59 25.1
## 376 ## 377 ## 378 ## 380 ## 381 ## 382 ## 383 ## 384 ## 385	12 0 1 4 0 1 0 1	140 98 87 156 93 107 105 109 90 125	82 82 60 75 100 72 68 60 62	43 15 37 0 39 30 22 8 18 24	325 39.2 84 25.2 75 37.2 0 48.3 72 43.4 82 30.8 0 20.0 182 25.4 59 25.1 110 24.3
## 376 ## 377 ## 378 ## 380 ## 381 ## 382 ## 383 ## 384 ## 385	12 0 1 4 0 1 0 1 1 1	140 98 87 156 93 107 105 109 90 125 119	82 82 60 75 100 72 68 60 62 70	43 15 37 0 39 30 22 8 18 24	325 39.2 84 25.2 75 37.2 0 48.3 72 43.4 82 30.8 0 20.0 182 25.4 59 25.1 110 24.3 50 22.3
## 376 ## 377 ## 378 ## 380 ## 381 ## 382 ## 383 ## 384 ## 385	12 0 1 4 0 1 0 1 1 1 1 5	140 98 87 156 93 107 105 109 90 125	82 82 60 75 100 72 68 60 62	43 15 37 0 39 30 22 8 18 24	325 39.2 84 25.2 75 37.2 0 48.3 72 43.4 82 30.8 0 20.0 182 25.4 59 25.1 110 24.3 50 22.3 0 32.3
## 376 ## 377 ## 378 ## 380 ## 381 ## 382 ## 383 ## 384 ## 385	12 0 1 4 0 1 0 1 1 1	140 98 87 156 93 107 105 109 90 125 119	82 82 60 75 100 72 68 60 62 70	43 15 37 0 39 30 22 8 18 24	325 39.2 84 25.2 75 37.2 0 48.3 72 43.4 82 30.8 0 20.0 182 25.4 59 25.1 110 24.3 50 22.3
## 376 ## 377 ## 378 ## 380 ## 381 ## 382 ## 383 ## 384 ## 385 ## 386 ## 387	12 0 1 4 0 1 0 1 1 1 1 5	140 98 87 156 93 107 105 109 90 125 119 116	82 82 60 75 100 72 68 60 62 70 54	43 15 37 0 39 30 22 8 18 24 13	325 39.2 84 25.2 75 37.2 0 48.3 72 43.4 82 30.8 0 20.0 182 25.4 59 25.1 110 24.3 50 22.3 0 32.3
## 376 ## 377 ## 378 ## 380 ## 381 ## 382 ## 383 ## 384 ## 385 ## 386 ## 387	12 0 1 4 0 1 0 1 1 1 5	140 98 87 156 93 107 105 109 90 125 119 116 105	82 82 60 75 100 72 68 60 62 70 54 74	43 15 37 0 39 30 22 8 18 24 13 29 36	325 39.2 84 25.2 75 37.2 0 48.3 72 43.4 82 30.8 0 20.0 182 25.4 59 25.1 110 24.3 50 22.3 0 32.3 0 43.3
## 376 ## 377 ## 378 ## 380 ## 381 ## 382 ## 383 ## 384 ## 385 ## 386 ## 387 ## 388	12 0 1 4 0 1 0 1 1 1 5 8	140 98 87 156 93 107 105 109 90 125 119 116 105 144	82 82 60 75 100 72 68 60 62 70 54 74 100	43 15 37 0 39 30 22 8 18 24 13 29 36 26	325 39.2 84 25.2 75 37.2 0 48.3 72 43.4 82 30.8 0 20.0 182 25.4 59 25.1 110 24.3 50 22.3 0 32.3 0 43.3 285 32.0
## 376 ## 377 ## 378 ## 380 ## 381 ## 382 ## 383 ## 384 ## 385 ## 386 ## 387 ## 388 ## 389 ## 390 ## 391	12 0 1 4 0 1 0 1 1 1 5 8 5 3	140 98 87 156 93 107 105 109 90 125 119 116 105 144 100 100	82 82 60 75 100 72 68 60 62 70 54 74 100 82 68	43 15 37 0 39 30 22 8 18 24 13 29 36 26 23 29	325 39.2 84 25.2 75 37.2 0 48.3 72 43.4 82 30.8 0 20.0 182 25.4 59 25.1 110 24.3 50 22.3 0 32.3 0 43.3 285 32.0 81 31.6 196 32.0
## 376 ## 377 ## 378 ## 380 ## 381 ## 382 ## 383 ## 384 ## 385 ## 386 ## 387 ## 388 ## 389 ## 390 ## 391 ## 392	12 0 1 4 0 1 0 1 1 1 5 8 5 3 1 5	140 98 87 156 93 107 105 109 90 125 119 116 105 144 100 100 166	82 82 60 75 100 72 68 60 62 70 54 74 100 82 68 66 76	43 15 37 0 39 30 22 8 18 24 13 29 36 26 23 29 0	325 39.2 84 25.2 75 37.2 0 48.3 72 43.4 82 30.8 0 20.0 182 25.4 59 25.1 110 24.3 50 22.3 0 32.3 0 43.3 285 32.0 81 31.6 196 32.0 0 45.7
## 376 ## 377 ## 378 ## 380 ## 381 ## 382 ## 383 ## 384 ## 385 ## 386 ## 387 ## 388 ## 390 ## 391 ## 392 ## 393	12 0 1 4 0 1 0 1 1 1 5 8 5 3 1 5	140 98 87 156 93 107 105 109 90 125 119 116 105 144 100 100 166 131	82 82 60 75 100 72 68 60 62 70 54 74 100 82 68 66 76	43 15 37 0 39 30 22 8 18 24 13 29 36 26 23 29 0	325 39.2 84 25.2 75 37.2 0 48.3 72 43.4 82 30.8 0 20.0 182 25.4 59 25.1 110 24.3 50 22.3 0 32.3 0 43.3 285 32.0 81 31.6 196 32.0 0 45.7 415 23.7
## 376 ## 377 ## 378 ## 380 ## 381 ## 382 ## 383 ## 384 ## 385 ## 386 ## 387 ## 388 ## 390 ## 391 ## 392 ## 393	12 0 1 4 0 1 0 1 1 1 5 8 5 3 1 5	140 98 87 156 93 107 105 109 90 125 119 116 105 144 100 100 166 131 116	82 82 60 75 100 72 68 60 62 70 54 74 100 82 68 66 76 64 72	43 15 37 0 39 30 22 8 18 24 13 29 36 26 23 29 0	325 39.2 84 25.2 75 37.2 0 48.3 72 43.4 82 30.8 0 20.0 182 25.4 59 25.1 110 24.3 50 22.3 0 32.3 0 43.3 285 32.0 81 31.6 196 32.0 0 45.7 415 23.7 87 22.1
## 376 ## 377 ## 378 ## 379 ## 380 ## 381 ## 382 ## 383 ## 384 ## 385 ## 386 ## 387 ## 388 ## 390 ## 391 ## 392 ## 393	12 0 1 4 0 1 0 1 1 1 5 8 5 3 1 5	140 98 87 156 93 107 105 109 90 125 119 116 105 144 100 100 166 131	82 82 60 75 100 72 68 60 62 70 54 74 100 82 68 66 76	43 15 37 0 39 30 22 8 18 24 13 29 36 26 23 29 0	325 39.2 84 25.2 75 37.2 0 48.3 72 43.4 82 30.8 0 20.0 182 25.4 59 25.1 110 24.3 50 22.3 0 32.3 0 43.3 285 32.0 81 31.6 196 32.0 0 45.7 415 23.7

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## 399	## JY0	Z	121	Dδ	∠4	213 21.1
## 399		3				
## 4400						
## 4400						
## 401						
## 402	## 400	3	193	70	31	0 34.9
## 402	## 401	4	95	64	0	0 32.0
## 403	## 402	6		61	0	
## 404						
## 405						
## 406			72	78	25	
## 406	## 405	5	168	64	0	0 32.9
## 407	## 406	2.		48	32	
## 408						
## 419						
## 410						
## 411	## 409	8	197	74	0	0 25.9
## 411	## 410	1	172	68	49	579 42.4
## 412						
## 413						
## 414						
## 415	## 413	1	143	84	23	310 42.4
## 415	## 414	1	143	74	22	61 26.2
## 416						
## 417						
## 418						
## 420	## 417	1	97	68	21	0 27.2
## 419	## 418	4	144	82	32	0 38.5
## 420						
## 421						
## 422						
## 423		1	119	88	41	170 45.3
## 423	## 422	2	94	68	18	76 26.0
## 424		Ο		64	46	
## 425						
## 426						
## 427						
## 428	## 426	4	184	78	39	277 37.0
## 428	## 427	0	94	0	0	0 0.0
## 429						
## 430						
## 431						
## 432	## 430	1	95	82	25	180 35.0
## 432	## 431	2	99	0	0	0 22.2
## 433						
## 434						
## 435						
## 436	## 434	2	139	75	0	0 25.6
## 436	## 435	1	90	68	8	0 24.5
## 437	## 436	Ω				
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## 440 6 107 88 0 0 36.8 ## 441 0 189 104 25 0 34.3 ## 442 2 83 66 23 50 32.2 ## 443 4 117 64 27 120 33.2 ## 444 8 108 70 0 0 30.5 ## 445 4 117 62 12 0 29.7 ## 446 0 180 78 63 14 59.4 ## 448 0 95 80 45 92 36.5 ## 449 0 104 64 37 64 33.6 ## 450 0 120 74 18 63 30.5 ## 451 1 82 64 13 95 21.2 ## 452 2 134 70 0 0 28.9 ## 453 0 91 68 32 210 39.9 ## 454 2 119 0 0 0 19.6 ## 455 1 1 135 54 0 0 26.7 ## 456 14 175 62 30 0 33.6 ## 459 10 148 84 48 237 37.6 ## 459 10 148 84 48 237 37.6 ## 460 9 134 74 33 60 25.9 ## 461 9 120 72 22 56 20.8 ## 462 1 71 62 0 0 21.8 ## 464 5 88 78 30 0 27.6 ## 465 10 115 98 0 0 0 24.0 ## 465 10 115 98 0 0 0 24.0 ## 466 0 124 56 13 105 21.8 ## 466 0 124 56 13 105 21.8 ## 466 0 124 56 13 105 21.8					0	
## 440 6 107 88 0 0 36.8 ## 441 0 189 104 25 0 34.3 ## 442 2 83 66 23 50 32.2 ## 443 4 117 64 27 120 33.2 ## 444 8 108 70 0 0 30.5 ## 446 0 180 78 63 14 59.4 ## 448 0 95 80 45 92 36.5 ## 449 0 104 64 37 64 33.6 ## 450 0 120 74 18 63 30.5 ## 451 1 82 64 13 95 21.2 ## 452 2 134 70 0 0 28.9 ## 453 0 91 68 32 210 39.9 ## 454 2 119 0 0 0 19.6 ## 455 1 1 135 54 0 0 26.7 ## 456 14 175 62 30 0 33.6 ## 459 10 148 84 48 237 37.6 ## 459 10 148 84 48 237 37.6 ## 460 9 134 74 33 60 25.9 ## 461 9 120 72 22 56 20.8 ## 462 1 71 62 0 0 21.8 ## 464 5 88 78 30 0 27.6 ## 465 10 115 98 0 0 0 24.0 ## 466 0 124 56 13 105 21.8 ## 466 0 124 56 13 105 21.8 ## 466 0 124 56 13 105 21.8	## 439	1	97	70	15	0 18.2
## 441 0 189 104 25 0 34.3 ## 442 2 83 66 23 50 32.2 ## 443 4 117 64 27 120 33.2 ## 444 8 108 70 0 0 30.5 ## 445 4 117 62 12 0 29.7 ## 446 0 180 78 63 14 59.4 ## 448 0 95 80 45 92 36.5 ## 449 0 104 64 37 64 33.6 ## 450 0 120 74 18 63 30.5 ## 451 1 82 64 13 95 21.2 ## 452 2 134 70 0 0 28.9 ## 453 0 91 68 32 210 39.9 ## 454 2 119 0 0 0 28.9 ## 455 5 2 100 54 28 105 37.8 ## 456 14 175 62 30 0 33.6 ## 458 5 86 68 28 71 30.2 ## 459 10 148 84 48 237 37.6 ## 460 9 134 74 33 60 25.9 ## 461 9 120 72 22 56 20.8 ## 462 1 71 62 0 0 21.8 ## 464 5 88 78 30 0 27.6 ## 465 10 115 98 0 0 0 24.0 ## 465 10 115 98 0 0 0 24.0 ## 466 0 124 56 13 105 21.8 ## 466 0 124 56 13 105 21.8				88		0 36.8
## 442						
## 443						
## 444		2				
## 444	## 443	4	117	64	27	120 33.2
## 445		8			0	
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## 448						
## 449	## 447	1	100	72	12	70 25.3
## 449	## 448	0	95	80	45	92 36.5
## 450 0 120 74 18 63 30.5 ## 451 1 82 64 13 95 21.2 ## 452 2 134 70 0 0 28.9 ## 453 0 91 68 32 210 39.9 ## 454 2 119 0 0 0 19.6 ## 455 2 100 54 28 105 37.8 ## 456 14 175 62 30 0 33.6 ## 457 1 135 54 0 0 26.7 ## 458 5 86 68 28 71 30.2 ## 459 10 148 84 48 237 37.6 ## 460 9 134 74 33 60 25.9 ## 461 9 120 72 22 56 20.8 ## 462 1 71 62 0 0 21.8 ## 463 8 74 70 40 49 35.3 ## 464 5 88 78 30 0 27.6 ## 465 10 115 98 0 0 24.0 ## 466 0 124 56 13 105 21.8 ## 466 0 74 52 10 36 27.8						
## 451						
## 452						
## 453	## 451	1	82	64	13	95 21.2
## 453	## 452	2		70	0	0 28.9
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## 456						
## 457		2	100	54		105 37.8
## 457	## 456	14	175	62	30	
## 458						
## 459 10 148 84 48 237 37.6 ## 460 9 134 74 33 60 25.9 ## 461 9 120 72 22 56 20.8 ## 462 1 71 62 0 0 21.8 ## 463 8 74 70 40 49 35.3 ## 464 5 88 78 30 0 27.6 ## 465 10 115 98 0 0 24.0 ## 466 0 124 56 13 105 21.8 ## 467 0 74 52 10 36 27.8						
## 460 9 134 74 33 60 25.9 ## 461 9 120 72 22 56 20.8 ## 462 1 71 62 0 0 21.8 ## 463 8 74 70 40 49 35.3 ## 464 5 88 78 30 0 27.6 ## 465 10 115 98 0 0 24.0 ## 466 0 124 56 13 105 21.8 ## 467 0 74 52 10 36 27.8						
## 461 9 120 72 22 56 20.8 ## 462 1 71 62 0 0 21.8 ## 463 8 74 70 40 49 35.3 ## 464 5 88 78 30 0 27.6 ## 465 10 115 98 0 0 24.0 ## 466 0 124 56 13 105 21.8 ## 467 0 74 52 10 36 27.8			148	84	48	237 37.6
## 461 9 120 72 22 56 20.8 ## 462 1 71 62 0 0 21.8 ## 463 8 74 70 40 49 35.3 ## 464 5 88 78 30 0 27.6 ## 465 10 115 98 0 0 24.0 ## 466 0 124 56 13 105 21.8 ## 467 0 74 52 10 36 27.8	## 460	9	134	74	33	60 25.9
## 462						
## 463 8 74 70 40 49 35.3 ## 464 5 88 78 30 0 27.6 ## 465 10 115 98 0 0 24.0 ## 466 0 124 56 13 105 21.8 ## 467 0 74 52 10 36 27.8						
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## 465 10 115 98 0 0 24.0 ## 466 0 124 56 13 105 21.8 ## 467 0 74 52 10 36 27.8	## 463	8	74		40	
## 465 10 115 98 0 0 24.0 ## 466 0 124 56 13 105 21.8 ## 467 0 74 52 10 36 27.8	## 464	5	88	78	30	0 27.6
## 466 0 124 56 13 105 21.8 ## 467 0 74 52 10 36 27.8				98		
## 467 0 74 52 10 36 27.8						
## 468		Λ.	74	5.2	1 0	36 27 8

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	# 4		6	154	78	41	140 4	
	# 4		1	144	82	40	0 4	
	# 4		0	137	70	38	0 3	
# :	# 4	73	0	119	66	27	0 3	
# :	# 4	74	7	136	90	0	0 2	9.9
# :	# 4	75	4	114	64	0	0 2	8.9
# :	# 4	76	0	137	84	27	0 2	7.3
	# 4		2	105	80	45	191 3	
	# 4		7	114				
					76	17	110 2	
	# 4		8	126	7 4	38	75 2	
	# 4		4	132	86	31	0 2	
# :	# 4	81	3	158	70	30	328 3	
# :	# 4	82	0	123	88	37	0 3	5.2
# :	# 4	83	4	85	58	22	49 2	7.8
	# 4		0	84	82	31	125 3	
	# 4		0	145	0	0	0 4	
	# 4		0	135	68	42	250 4	
	# 4		1	139	62	41	480 4	
	# 4		0	173	78	32	265 4	
# :	# 4	89	4	99	72	17	0 2	
# :	# 4	90	8	194	80	0	0 2	6.1
	# 4		2	83	65	28	66 3	
	# 4		2	89	90	30	0 3	
	# 4		4	99	68	38	0 3	
	# 4		4	125	70	18	122 2	
	# 4		3	80	0	0	0	
	# 4		6	166	74	0	0 2	
# :	# 4	97	5	110	68	0	0 2	6.0
# :	# 4	98	2	81	72	15	76 3	0.1
	# 4		7	195	70	33	145 2	
	# 5		6	154	74	32	193 2	
	# 5		2	117	90	19	71 2	
	# 5		3	84	72	32	0 3	
# :	# 5	03	6	0	68	41	0 3	
# :	# 5	0 4	7	94	64	25	79 3	3.3
# :	# 5	05	3	96	78	39	0 3	7.3
	# 5		10	75	82	0	0 3	
	# 5		0	180	90	26	90 3	
							170 2	
	# 5		1	130	60	23		
	# 5		2	84	50	23		
	# 5		8	120	78	0	0 2	
# :	# 5	11	12	84	72	31	0 2	9.7
# :	# 5	12	0	139	62	17	210 2	2.1
	# 5		9	91	68	0	0 2	
	# 5		2	91	62	0	0 2	
	# 5		3	99	54	19		
	# 5		3	163	70	18	105 3	
# :	# 5	17	9	145	88	34	165 3	
	# 5		7	125	86	0	0 3	
	# 5		13	76	60	0		
	# 5:		6	129		7		
	# 5		2	68	70	32		
	# 5		3	124	80	33	130 3	
# :	# 5	23	6	114	0	0	0	0.0
	# 5:		9	130	70	0	0 3	
	# 5:		3	125	58	0	0 3	
	# 5.		3	87	60	18		
							0 2	
	# 5		1	97	64	19	82 1	
	# 5		3	116	74	15	105 2	
# :	# 5	29	0	117	66	31	188 3	0.8
# :	# 5	30	0	111	65	0	0 2	4.6
	# 5		2	122	60	18		
	# 5		0	107	76	0	0 4	
	# 5		1	86	66	52	65 4	
	# 5		6	91	0	0	0 2	
# :	# 5	35	1	77	56	30	56 3	
	# 5	36	4	132	0	0	0 3	2.9
# :			0	105	90	0	0 2	
	# 5		-				0 2	
# :	# 5. # 5		\cap	5.7	611			- • /
#:	# 5	38	0	57	60	0		
#:	# 5 # 5	38 39	0	127	80	37	210 3	6.3
#: #: #:	# 5 # 5 # 5	38 39 40	0	127 129	80 92	37 49	210 3 155 3	6.3
#: #: #:	# 5 # 5	38 39 40	0	127	80	37	210 3	6.3

## 542						
## 543		2	100	70	0.5	100 00 4
## 544						
## 545						
## 546	## 544	4	84	90	23	56 39.5
## 547	## 545	1	88	78	29	76 32.0
## 548	## 546	8	186	90	35	225 34.5
## 549	## 547	5	187	76	27	207 43.6
## 550	## 548	4	131	68	21	166 33.1
## 550		1				
## 551						
## 552						
## 553						
## 554						
## 555	## 553	6	114	88	0	0 27.8
## 556	## 554	1	88	62	24	44 29.9
## 557	## 555	1	84	64	23	115 36.9
## 558	## 556	7	124	70	33	215 25.5
## 5559	## 557	1	97	70	40	0 38.1
## 5559		8				
## 560						
## 561						
## 562						
## 563						
## 564 6 99 60 19 54 26.9 ## 565 0 91 80 0 0 0 32.4 ## 566 2 95 54 14 88 26.1 ## 567 1 99 72 30 18 38.6 ## 568 6 92 62 32 126 32.0 ## 570 0 121 66 30 165 34.3 ## 571 3 78 70 0 0 32.5 ## 572 2 130 96 0 0 22.5 ## 573 3 111 58 31 44 29.5 ## 574 2 98 60 17 120 34.7 ## 575 1 143 86 30 330 30.1 ## 576 1 119 44 47 63 35.5 ## 577 6 108 44 20 130 24.0 ## 578 2 118 80 0 0 42.9 ## 579 10 133 68 0 0 0 27.0 ## 580 2 197 70 99 0 34.7 ## 581 0 151 90 46 0 42.1 ## 583 12 121 78 17 0 26.5 ## 584 8 100 76 0 0 38.7 ## 585 8 124 76 24 600 28.7 ## 586 1 93 56 11 0 22.5 ## 587 8 1 111 84 66 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
## 565	## 563	1	87	68	34	77 37.6
## 566	## 564	6	99	60	19	54 26.9
## 567	## 565	0	91	80	0	0 32.4
## 567	## 566	2	95	54	14	88 26.1
## 568		1	99	72	30	18 38.6
## 569						
## 570 0 121 66 30 165 34.3 ## 571 3 78 70 0 0 32.5 ## 572 2 130 96 0 0 0.2.6 ## 573 3 111 58 31 44 29.5 ## 574 2 98 60 17 120 34.7 ## 575 1 143 86 30 330 30.1 ## 576 1 119 44 47 63 35.5 ## 577 6 108 44 20 130 24.0 ## 578 2 118 80 0 0 42.9 ## 579 10 133 68 0 0 0 0 42.9 ## 579 10 133 68 0 0 0 0 0 42.9 ## 581 0 151 90 46 0 42.1 ## 582 6 109 60 27 0 25.0 ## 583 12 121 78 17 0 26.5 ## 585 8 124 76 24 600 28.7 ## 586 1 93 56 11 0 22.5 ## 587 8 143 66 0 0 0 34.9 ## 588 6 103 66 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
## 571						
## 572						
## 573						
## 574		2	130	96	0	0 22.6
## 575	## 573	3	111	58	31	44 29.5
## 576	## 574	2	98	60	17	120 34.7
## 577	## 575	1	143	86	30	330 30.1
## 578	## 576	1	119	44	47	63 35.5
## 578	## 577	6	108	4 4	2.0	130 24.0
## 579						
## 580						
## 581 0 151 90 46 0 42.1 ## 582 6 109 60 27 0.25.0 ## 583 12 121 78 17 0.26.5 ## 584 8 100 76 0 0.38.7 ## 585 8 124 76 24 600.28.7 ## 586 1 93 56 11 0.22.5 ## 587 8 143 66 0 0.34.9 ## 589 3 176 86 27 156 33.3 ## 590 0 73 0 0 0.21.1 ## 591 11 111 84 40 0.46.8 ## 592 2 112 78 50 140 39.4 ## 593 3 132 80 0 0.34.4 ## 594 2 82 52 22 115 28.5 ## 595 6 123 72 45 230 33.6 ## 596 0 188 82 14 185 32.0 ## 598 1 89 24 19 25 27.8 ## 598 1 89 24 19 25 27.8 ## 600 1 109 38 18 120 23.1 ## 601 1 108 88 19 0.27.1 ## 602 6 96 0 0 0.23.7 ## 603 1 124 74 36 0.27.8 ## 604 7 150 78 29 126 3.3 ## 605 4 183 0 0 0 28.4 ## 606 1 124 60 32 0.35.8 ## 607 1 181 78 42 29.3 40.0 ## 608 1 92 62 25 41 19.5 ## 609 0 152 82 39 272 41.5 ## 601 1 181 78 42 29.3 40.0 ## 608 1 92 62 25 41 19.5 ## 609 0 152 82 39 272 41.5 ## 601 1 111 62 13 182 29.9 ## 601 3 174 58 22 194 32.9						
## 582						
## 583						
## 584						
## 585	## 583	12	121	78	17	0 26.5
## 586	## 584	8	100	76	0	0 38.7
## 587	## 585	8	124	76	24	600 28.7
## 587	## 586	1	93	56	11	0 22.5
## 588	## 587	8	143	66	0	0 34.9
## 589						
## 590 0 73 0 0 0 21.1 ## 591 11 111 84 40 0 46.8 ## 592 2 112 78 50 140 39.4 ## 593 3 132 80 0 0 34.4 ## 594 2 82 52 22 115 28.5 ## 595 6 123 72 45 230 33.6 ## 596 0 188 82 14 185 32.0 ## 597 0 67 76 0 0 45.3 ## 598 1 89 24 19 25 27.8 ## 599 1 173 74 0 0 36.8 ## 600 1 109 38 18 120 23.1 ## 601 1 108 88 19 0 27.1 ## 602 6 96 0 0 0 23.7 ## 603 1 124 74 36 0 27.8 ## 604 7 150 78 29 126 35.2 ## 605 4 183 0 0 0 28.4 ## 606 1 124 60 32 0 35.8 ## 607 1 181 78 42 293 40.0 ## 608 1 92 62 25 41 19.5 ## 609 0 152 82 39 272 41.5 ## 610 1 111 62 13 182 24.0 ## 611 3 106 54 21 158 30.9 ## 612 3 174 58 22 194 32.9						
## 591						
## 592						
## 593						
## 594						
## 595 6 123 72 45 230 33.6 ## 596 0 188 82 14 185 32.0 ## 597 0 67 76 0 0 45.3 ## 598 1 89 24 19 25 27.8 ## 599 1 173 74 0 0 36.8 ## 600 1 109 38 18 120 23.1 ## 601 1 108 88 19 0 27.1 ## 602 6 96 0 0 0 23.7 ## 603 1 124 74 36 0 27.8 ## 604 7 150 78 29 126 35.2 ## 605 4 183 0 0 0 28.4 ## 606 1 124 60 32 0 35.8 ## 607 1 181 78 42 293 40.0 ## 608 1 92 62 25 41 19.5 ## 609 0 152 82 39 272 41.5 ## 610 1 111 62 13 182 24.0 ## 611 3 106 54 21 158 30.9 ## 612 3 174 58 22 194 32.9 ## 613 7 168 88 42 321 38.2						
## 596	## 594	2	82	52	22	115 28.5
## 597	## 595	6	123	72	45	230 33.6
## 598	## 596	0	188	82	14	185 32.0
## 598	## 597	0	67	76	0	0 45.3
## 599						
## 600						
## 601 1 108 88 19 0 27.1 ## 602 6 96 0 0 0 23.7 ## 603 1 124 74 36 0 27.8 ## 604 7 150 78 29 126 35.2 ## 605 4 183 0 0 0 28.4 ## 606 1 124 60 32 0 35.8 ## 607 1 181 78 42 293 40.0 ## 608 1 92 62 25 41 19.5 ## 609 0 152 82 39 272 41.5 ## 610 1 111 62 13 182 24.0 ## 611 3 106 54 21 158 30.9 ## 612 3 174 58 22 194 32.9 ## 613 7 168 88 42 321 38.2						
## 602 6 96 0 0 0 23.7 ## 603 1 124 74 36 027.8 ## 604 7 150 78 29 126 35.2 ## 605 4 183 0 0 0 28.4 ## 606 1 124 60 32 0 35.8 ## 607 1 181 78 42 293 40.0 ## 608 1 92 62 25 41 19.5 ## 609 0 152 82 39 272 41.5 ## 610 1 111 62 13 182 24.0 ## 611 3 106 54 21 158 30.9 ## 612 3 174 58 22 194 32.9 ## 613 7 168 88 42 321 38.2						
## 603 1 124 74 36 0 27.8 ## 604 7 150 78 29 126 35.2 ## 605 4 183 0 0 0 28.4 ## 606 1 124 60 32 0 35.8 ## 607 1 181 78 42 293 40.0 ## 608 1 92 62 25 41 19.5 ## 609 0 152 82 39 272 41.5 ## 610 1 111 62 13 182 24.0 ## 611 3 106 54 21 158 30.9 ## 612 3 174 58 22 194 32.9 ## 613 7 168 88 42 321 38.2						
## 604 7 150 78 29 126 35.2 ## 605 4 183 0 0 0 28.4 ## 606 1 124 60 32 0 35.8 ## 607 1 181 78 42 293 40.0 ## 608 1 92 62 25 41 19.5 ## 609 0 152 82 39 272 41.5 ## 610 1 111 62 13 182 24.0 ## 611 3 106 54 21 158 30.9 ## 612 3 174 58 22 194 32.9 ## 613 7 168 88 42 321 38.2						
## 605 4 183 0 0 0 28.4 ## 606 1 124 60 32 0 35.8 ## 607 1 181 78 42 293 40.0 ## 608 1 92 62 25 41 19.5 ## 609 0 152 82 39 272 41.5 ## 610 1 111 62 13 182 24.0 ## 611 3 106 54 21 158 30.9 ## 612 3 174 58 22 194 32.9 ## 613 7 168 88 42 321 38.2						
## 606 1 124 60 32 0 35.8 ## 607 1 181 78 42 293 40.0 ## 608 1 92 62 25 41 19.5 ## 609 0 152 82 39 272 41.5 ## 610 1 111 62 13 182 24.0 ## 611 3 106 54 21 158 30.9 ## 612 3 174 58 22 194 32.9 ## 613 7 168 88 42 321 38.2	## 604	7		78	29	
## 607 1 181 78 42 293 40.0 ## 608 1 92 62 25 41 19.5 ## 609 0 152 82 39 272 41.5 ## 610 1 111 62 13 182 24.0 ## 611 3 106 54 21 158 30.9 ## 612 3 174 58 22 194 32.9 ## 613 7 168 88 42 321 38.2	## 605	4	183	0	0	0 28.4
## 607 1 181 78 42 293 40.0 ## 608 1 92 62 25 41 19.5 ## 609 0 152 82 39 272 41.5 ## 610 1 111 62 13 182 24.0 ## 611 3 106 54 21 158 30.9 ## 612 3 174 58 22 194 32.9 ## 613 7 168 88 42 321 38.2	## 606	1	124	60	32	0 35.8
## 608 1 92 62 25 41 19.5 ## 609 0 152 82 39 272 41.5 ## 610 1 111 62 13 182 24.0 ## 611 3 106 54 21 158 30.9 ## 612 3 174 58 22 194 32.9 ## 613 7 168 88 42 321 38.2		1				
## 609 0 152 82 39 272 41.5 ## 610 1 111 62 13 182 24.0 ## 611 3 106 54 21 158 30.9 ## 612 3 174 58 22 194 32.9 ## 613 7 168 88 42 321 38.2						
## 610 1 111 62 13 182 24.0 ## 611 3 106 54 21 158 30.9 ## 612 3 174 58 22 194 32.9 ## 613 7 168 88 42 321 38.2						
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## 613 7 168 88 42 321 38.2						
I ## 61 // 00 00 00 00 00 00 00 00 00 00 00 00						
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##	0 ⊥ 4	ю	LUD	ŏυ	∠ŏ	U	32.3
##	615	11	138	74	26		36.1
##	616	3	106	72	0	0	25.8
##	617	6	117	96	0	0	28.7
##	618	2	68	62	13	15	20.1
		9					
##	619		112	82	24		28.2
##	620	0	119	0	0	0	32.4
##	621	2	112	86	42	160	38.4
##	622	2	92	76	20	0	24.2
		6	183				40.8
##	623			94	0		
##	624	0	94	70	27		43.5
##	625	2	108	64	0	0	30.8
##	626	4	90	88	47	54	37.7
##	627	0	125	68	0		24.7
##	628	0	132	78	0	0	32.4
##	629	5	128	80	0	0	34.6
##	630	4	94	65	22	0	24.7
##	631	7	114	64	0		27.4
##	632	0	102	78	40	90	34.5
##	633	2	111	60	0	0	26.2
##	634	1	128	82	17	183	27.5
##	635	10	92	62	0		25.9
##	636	13	104	72	0		31.2
##	637	5	104	74	0	0	28.8
##	638	2	94	76	18	66	31.6
##	639	7	97	76	32		40.9
##	640	1	100	74	12		19.5
##	641	0	102	86	17	105	29.3
##	642	4	128	70	0	0	34.3
##	643	6	147	80	0	0	29.5
##	644	4	90	0	0		28.0
##	645	3	103	72	30		27.6
##	646	2	157	74	35	440	39.4
##	647	1	167	7 4	17	144	23.4
##	648	0	179	50	36	159	37.8
##	649	11	136	84	35		28.3
##	650	0	107	60	25		26.4
##	651	1	91	54	25	100	25.2
##	652	1	117	60	23	106	33.8
##	653	5	123	74	40	77	34.1
	654	2	120	54	0		26.8
	655	1	106	70	28		34.2
##	656	2	155	52	27	540	38.7
##	657	2	101	58	35	90	21.8
##	658	1	120	80	48	200	38.9
##	659	11	127	106	0		39.0
	660	3	80	82	31		34.2
##	661	10	162	84	0	0	27.7
##	662	1	199	76	43	0	42.9
	663	8	167	106	46	221	37.6
	664	•	101				
		0	1/15	8 0			
		9	145	80	46	130	37.9
	665	6	115	60	46 39	130 0	37.9 33.7
##	665 666				46	130 0	37.9
##	665	6	115	60	46 39	130 0 132 0	37.9 33.7 34.8 32.5
##	665 666 667	6 1	115 112	60 80	46 39 45 18	130 0 132 0	37.9 33.7 34.8 32.5
##	665 666 667 668	6 1 4 10	115 112 145 111	60 80 82 70	46 39 45 18 27	130 0 132 0	37.9 33.7 34.8 32.5 27.5
# # # # # #	665 666 667 668 669	6 1 4 10 6	115 112 145 111 98	60 80 82 70 58	46 39 45 18 27 33	130 0 132 0 0	37.9 33.7 34.8 32.5 27.5 34.0
## ## ## ##	665 666 667 668 669 670	6 1 4 10 6 9	115 112 145 111 98 154	60 80 82 70 58 78	46 39 45 18 27 33 30	130 0 132 0 0 190 100	37.9 33.7 34.8 32.5 27.5 34.0 30.9
## ## ## ## ##	665 666 667 668 669 670 671	6 1 4 10 6	115 112 145 111 98	60 80 82 70 58	46 39 45 18 27 33	130 0 132 0 0 190 100	37.9 33.7 34.8 32.5 27.5 34.0 30.9 33.6
## ## ## ## ##	665 666 667 668 669 670	6 1 4 10 6 9	115 112 145 111 98 154	60 80 82 70 58 78	46 39 45 18 27 33 30	130 0 132 0 0 190 100	37.9 33.7 34.8 32.5 27.5 34.0 30.9
## ## ## ## ##	665 666 667 668 669 670 671	6 1 4 10 6 9	115 112 145 111 98 154 165	60 80 82 70 58 78	46 39 45 18 27 33 30 26	130 0 132 0 0 190 100 168 0	37.9 33.7 34.8 32.5 27.5 34.0 30.9 33.6
## ## ## ## ##	665 666 667 668 669 670 671 672 673	6 1 4 10 6 9 6 1	115 112 145 111 98 154 165 99 68	60 80 82 70 58 78 68 58	46 39 45 18 27 33 30 26 10 23	130 0 132 0 0 190 100 168 0 49	37.9 33.7 34.8 32.5 27.5 34.0 30.9 33.6 25.4 35.5
## ## ## ## ## ##	665 666 667 668 669 670 671 672 673 674	6 1 4 10 6 9 6 1 10 3	115 112 145 111 98 154 165 99 68 123	60 80 82 70 58 78 68 58 106 100	46 39 45 18 27 33 30 26 10 23 35	130 0 132 0 0 190 100 168 0 49 240	37.9 33.7 34.8 32.5 27.5 34.0 30.9 33.6 25.4 35.5 57.3
## ## ## ## ## ##	665 666 667 668 669 670 671 672 673 674 675	6 1 4 10 6 9 6 1 10 3 8	115 112 145 111 98 154 165 99 68 123 91	60 80 82 70 58 78 68 58 106 100 82	46 39 45 18 27 33 30 26 10 23 35	130 0 132 0 0 190 100 168 0 49 240	37.9 33.7 34.8 32.5 27.5 34.0 30.9 33.6 25.4 35.5 57.3 35.6
## ## ## ## ## ##	665 666 667 668 669 670 671 672 673 674 675 676	6 1 4 10 6 9 6 1 10 3 8 6	115 112 145 111 98 154 165 99 68 123 91	60 80 82 70 58 78 68 58 106 100 82	46 39 45 18 27 33 30 26 10 23 35 0	130 0 132 0 0 190 100 168 0 49 240 0	37.9 33.7 34.8 32.5 27.5 34.0 30.9 33.6 25.4 35.5 57.3 35.6 30.9
## ## ## ## ## ##	665 666 667 668 669 670 671 672 673 674 675	6 1 4 10 6 9 6 1 10 3 8	115 112 145 111 98 154 165 99 68 123 91	60 80 82 70 58 78 68 58 106 100 82	46 39 45 18 27 33 30 26 10 23 35	130 0 132 0 0 190 100 168 0 49 240 0	37.9 33.7 34.8 32.5 27.5 34.0 30.9 33.6 25.4 35.5 57.3 35.6
## ## ## ## ## ## ##	665 666 667 668 669 670 671 672 673 674 675 676	6 1 4 10 6 9 6 1 10 3 8 6	115 112 145 111 98 154 165 99 68 123 91	60 80 82 70 58 78 68 58 106 100 82	46 39 45 18 27 33 30 26 10 23 35 0	130 0 132 0 190 100 168 0 49 240 0	37.9 33.7 34.8 32.5 27.5 34.0 30.9 33.6 25.4 35.5 57.3 35.6 30.9
## ## ## ## ## ## ##	665 666 667 668 669 670 671 672 673 674 675 676 677 678	6 1 4 10 6 9 6 1 10 3 8 6 9	115 112 145 111 98 154 165 99 68 123 91 195 156	60 80 82 70 58 78 68 58 106 100 82 70 86 60	46 39 45 18 27 33 30 26 10 23 35 0 0	130 0 132 0 0 190 100 168 0 49 240 0 0	37.9 33.7 34.8 32.5 27.5 34.0 30.9 33.6 25.4 35.5 57.3 35.6 30.9 24.8 35.3
## ## ## ## ## ## ## ##	665 666 667 668 669 670 671 672 673 674 675 676 677 678	6 1 4 10 6 9 6 1 10 3 8 6 9 0 3	115 112 145 111 98 154 165 99 68 123 91 195 156 93 121	60 80 82 70 58 78 68 58 106 100 82 70 86 60 52	46 39 45 18 27 33 30 26 10 23 35 0 0	130 0 132 0 190 100 168 0 49 240 0 0 0	37.9 33.7 34.8 32.5 27.5 34.0 30.9 33.6 25.4 35.5 57.3 35.6 30.9 24.8 35.3 36.0
#######################	665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680	6 1 4 10 6 9 6 1 10 3 8 6 9 0 3 2	115 112 145 111 98 154 165 99 68 123 91 195 156 93 121 101	60 80 82 70 58 78 68 58 106 100 82 70 86 60 52 58	46 39 45 18 27 33 30 26 10 23 35 0 0 0	130 0 132 0 0 190 100 168 0 49 240 0 0 0 0	37.9 33.7 34.8 32.5 27.5 34.0 30.9 33.6 25.4 35.5 57.3 35.6 30.9 24.8 35.3 36.0 24.2
#######################	665 666 667 668 669 670 671 672 673 674 675 676 677 678	6 1 4 10 6 9 6 1 10 3 8 6 9 0 3	115 112 145 111 98 154 165 99 68 123 91 195 156 93 121	60 80 82 70 58 78 68 58 106 100 82 70 86 60 52	46 39 45 18 27 33 30 26 10 23 35 0 0	130 0 132 0 0 190 100 168 0 49 240 0 0 0 0	37.9 33.7 34.8 32.5 27.5 34.0 30.9 33.6 25.4 35.5 57.3 35.6 30.9 24.8 35.3 36.0
#######################################	665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680	6 1 4 10 6 9 6 1 10 3 8 6 9 0 3 2	115 112 145 111 98 154 165 99 68 123 91 195 156 93 121 101	60 80 82 70 58 78 68 58 106 100 82 70 86 60 52 58	46 39 45 18 27 33 30 26 10 23 35 0 0 0	130 0 132 0 0 190 100 168 0 49 240 0 0 0 0 265 45	37.9 33.7 34.8 32.5 27.5 34.0 30.9 33.6 25.4 35.5 57.3 35.6 30.9 24.8 35.3 36.0 24.2
#####################	665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681	6 1 4 10 6 9 6 1 10 3 8 6 9 0 3 2 2	115 112 145 111 98 154 165 99 68 123 91 195 156 93 121 101 56	60 80 82 70 58 78 68 58 106 100 82 70 86 60 52 58 56	46 39 45 18 27 33 30 26 10 23 35 0 0 0 0	130 0 132 0 0 0 190 100 168 0 49 240 0 0 0 0 0 265 45	37.9 33.7 34.8 32.5 27.5 34.0 30.9 33.6 25.4 35.5 57.3 35.6 30.9 24.8 35.3 36.0 24.2 24.2
####################	665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683	6 1 4 10 6 9 6 1 10 3 8 6 9 0 3 2 2 0 0	115 112 145 111 98 154 165 99 68 123 91 195 156 93 121 101 56 162 95	60 80 82 70 58 78 68 58 106 100 82 70 86 60 52 58 56 76 64	46 39 45 18 27 33 30 26 10 23 35 0 0 0 0 17 28 36 39	130 0 132 0 0 0 190 100 168 0 49 240 0 0 0 0 0 265 45 0 105	37.9 33.7 34.8 32.5 27.5 34.0 30.9 33.6 25.4 35.5 57.3 35.6 30.9 24.8 35.3 36.0 24.2 24.2 49.6 44.6
######################	665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684	6 1 4 10 6 9 6 1 10 3 8 6 9 0 3 2 2 0 0 4	115 112 145 111 98 154 165 99 68 123 91 195 156 93 121 101 56 162 95 125	60 80 82 70 58 78 68 58 106 100 82 70 86 60 52 58 56 76 64	46 39 45 18 27 33 30 26 10 23 35 0 0 0 0 17 28 36 39 0	130 0 132 0 0 0 190 100 168 0 49 240 0 0 0 0 0 265 45 0 105	37.9 33.7 34.8 32.5 27.5 34.0 30.9 33.6 25.4 35.5 57.3 35.6 30.9 24.8 35.3 36.0 24.2 24.2 49.6 44.6 32.3
########################	665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685	6 1 4 10 6 9 6 1 10 3 8 6 9 0 3 2 2 0 0 4 5	115 112 145 111 98 154 165 99 68 123 91 195 156 93 121 101 56 162 95 125 136	60 80 82 70 58 78 68 58 106 100 82 70 86 60 52 58 56 76 64 80 82	46 39 45 18 27 33 30 26 10 23 35 0 0 0 17 28 36 39 0 0	130 0 132 0 0 190 100 168 0 49 240 0 0 0 0 0 265 45 0 105 0	37.9 33.7 34.8 32.5 27.5 34.0 30.9 33.6 25.4 35.5 57.3 35.6 30.9 24.8 35.3 36.0 24.2 24.2 49.6 44.6 32.3 0.0
#######################################	665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684	6 1 4 10 6 9 6 1 10 3 8 6 9 0 3 2 2 0 0 4	115 112 145 111 98 154 165 99 68 123 91 195 156 93 121 101 56 162 95 125	60 80 82 70 58 78 68 58 106 100 82 70 86 60 52 58 56 76 64	46 39 45 18 27 33 30 26 10 23 35 0 0 0 0 17 28 36 39 0	130 0 132 0 0 190 100 168 0 49 240 0 0 0 0 0 265 45 0 105 0	37.9 33.7 34.8 32.5 27.5 34.0 30.9 33.6 25.4 35.5 57.3 35.6 30.9 24.8 35.3 36.0 24.2 24.2 49.6 44.6 32.3

## 687								
## 688	## /	587	3	130	61	Ω	U 55 1	
## 689								
## 690								
## 691	## (589	1	140	74	26	180 24.1	
## 692	## (590	1	144	82	46	180 46.1	
## 692 13 158 114 0 0 0 42.3 ## 693 7 129 68 49 125 38.5 ## 694 7 129 68 49 125 38.5 ## 695 7 142 90 60 0 0 23.5 ## 696 7 142 90 24 480 30.4 ## 697 3 169 74 19 125 29.9 ## 698 0 0 99 0 0 0 0 25.0 ## 699 4 127 88 11 155 34.5 ## 701 2 122 76 27 200 35.9 ## 703 1 1 168 88 29 0 35.9 ## 703 1 1 168 88 29 0 35.9 ## 704 2 129 0 0 0 0 35.0 ## 705 4 110 76 20 100 28.4 ## 706 6 80 80 36 36 33.5 ## 707 10 15 0 0 0 0 0.8 ## 708 2 127 46 21 33.5 34.4 ## 708 2 127 46 21 33.5 34.4 ## 700 2 93 64 32 160 38.0 ## 710 2 93 64 32 160 38.0 ## 711 3 158 64 11 38.8 ## 712 5 126 78 27 22 29.6 ## 714 0 0 134 58 20 29.1 26.4 ## 715 3 102 74 0 0 29.1 26.4 ## 716 3 102 74 0 0 29.1 26.4 ## 717 3 173 78 39 165 33.8 ## 719 1 108 60 46 178 33.8 ## 719 1 1 108 60 46 178 33.8 ## 719 1 1 108 60 46 178 33.8 ## 719 1 1 108 60 46 178 39.9 ## 719 1 1 108 60 46 178 35.5 ## 719 1 1 108 60 46 178 39.9 ## 719 1 1 108 60 46 178 35.5 ## 719 1 1 108 60 46 179 0 29.9 ## 719 1 1 108 60 46 179 0 29.9 ## 719 1 1 108 60 46 179 0 29.9 ## 719 1 1 108 60 46 179 0 29.9 ## 719 1 1 108 60 46 179 0 29.9 ## 719 1 1 108 60 46 179 0 29.9 ## 719 1 1 108 60 46 179 0 29.9 ## 719 1 1 108 60 46 179 0 29.9 ## 719 1 1 108 60 46 179 0 29.9 ## 719 1 1 108 60 46 179 0 29.9 ## 719 1 1 108 60 46 179 0 29.9 ## 720 1 109 0 29.9 ## 731 2 8 120 86 0 0 0 22.9 ## 732 8 120 86 0 0 0 22.9 ## 733 2 9 2 9 52 0 0 0 0 0.1 ## 734 2 8 120 86 0 0 0 22.9 ## 735 2 105 75 0 0 23.3 ## 737 0 26 60 37 150 22.7 ## 738 2 0 141 84 26 0 22.7 ## 739 2 0 9 60 17 160 32.0 ## 739 2 0 9 60 17 160 32.7 ## 739 2 0 9 60 17 160 32.7 ## 739 2 0 9 60 17 160 32.7 ## 739 2 0 9 60 17 160 32.7 ## 739 2 0 9 60 17 160 32.7 ## 739 2 0 9 60 17 160 32.7 ## 739 2 0 9 60 17 160 32.7 ## 739 2 0 9 60 17 160 32.0 ## 739 2 0 9 60 17 160 32.0 ## 730 4 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	## 6	591	8	107	8.0	0	0 24.6	
## 693								
## 696								
## 695	## (593	2	121	70	32	95 39.1	
## 696	## (594	7	129	68	49	125 38.5	
## 696	## (595	2.	90	60	0	0 23.5	
## 697								
## 688								
## 700	## (597	3	169	7 4	19	125 29.9	
## 700	## (598	0	99	0	0	0 25.0	
## 700	## (599	4	127	88	11	155 34.5	
## 701								
## 702								
## 703	##	701	2	122	76	27		
## 704	## 1	702	6	125	78	31	0 27.6	
## 704	## -	703	1	168	88	2.9	0 35.0	
## 705								
## 706								
## 707			4	110	76	20		
## 708	## '	706	6	80	80	36	0 39.8	
## 708	## '	707	10	115	0	0	0 0.0	
## 709								
## 710								
## 711								
## 712	## 1	710	2	93	64	32	160 38.0	
## 712	## '	711	3	158	64	13	387 31.2	
## 713								
## 714								
## 715				129				
## 715	## '	714	0	134	58	20	291 26.4	
## 716	## '	715	3	102	74	0		
## 718								
## 718								
## 719								
## 720	## '	718	10	94	72	18		
## 720	## '	719	1	108	60	46	178 35.5	
## 721	## -	720	5		76	27		
## 722								
## 723								
## 724	## '	122	1	114	66	36	200 38.1	
## 725	## 1	123	1	149	68	29	127 29.3	
## 725	## '	72.4	5	117	86	30	105 39.1	
## 726								
## 727								
## 728			4					
## 729	## 1	127	1	116	78	29	180 36.1	
## 729	## 1	728	0	141	84	26	0 32.4	
## 730			2			Ο		
## 731								
## 732								
## 733	## 1	/31	3		78	23		
## 733	## '	732	8	120	86	0	0 28.4	
## 734								
## 735								
## 736								
## 737	## 1	735	2	105	75	0	0 23.3	
## 737	## '	736	4	95	60	32	0 35.4	
## 738								
## 739								
## 740								
## 741	## 7	739	2	99	60	17	160 36.6	
## 741 11 120 80 37 150 42.3 ## 742 3 102 44 20 94 30.8 ## 743 1 109 58 18 116 28.5 ## 744 9 140 94 0 0 32.7 ## 745 13 153 88 37 140 40.6 ## 747 1 147 94 41 0 49.3 ## 749 3 187 70 22 200 36.4 ## 750 6 162 62 0 0 24.3 ## 751 4 136 70 0 31.2 ## 752 1 121 78 39 74 39.0 ## 753 3 108 62 24 0 26.0 ## 754 1 128 88 39 110 36.5 ## 755 8 154 78 32 0 32.4 ## 756 1 128 88 39 110 36.5 ## 757 7 137 90 41 0 32.0 ## 757 7 137 90 41 0 32.0	## '	740	1	102	74	0	0 39.5	
## 742								
## 743								
## 744 9 140 94 0 0 0 32.7 ## 745 13 153 88 37 140 40.6 ## 746 12 100 84 33 105 30.0 ## 747 1 147 94 41 0 49.3 ## 748 1 81 74 41 57 46.3 ## 749 3 187 70 22 200 36.4 ## 750 6 162 62 0 0 24.3 ## 751 4 136 70 0 0 31.2 ## 752 1 121 78 39 74 39.0 ## 753 3 108 62 24 0 26.0 ## 754 0 181 88 44 510 43.3 ## 755 8 154 78 32 0 32.4 ## 756 1 128 88 39 110 36.5 ## 757 7 137 90 41 0 32.0 ## 757 7 137 90 41 0 32.0			3			20		
## 744 9 140 94 0 0 0 32.7 ## 745 13 153 88 37 140 40.6 ## 746 12 100 84 33 105 30.0 ## 747 1 147 94 41 0 49.3 ## 748 1 81 74 41 57 46.3 ## 749 3 187 70 22 200 36.4 ## 750 6 162 62 0 0 24.3 ## 751 4 136 70 0 0 31.2 ## 752 1 121 78 39 74 39.0 ## 753 3 108 62 24 0 26.0 ## 754 0 181 88 44 510 43.3 ## 755 8 154 78 32 0 32.4 ## 756 1 128 88 39 110 36.5 ## 757 7 137 90 41 0 32.0 ## 758 0 123 72 0 0 36.3	## '	743	1	109	58	18	116 28.5	
## 745			9			0		
## 746								
## 747								
## 748	## 1	/46			84	33		
## 748	## *	747	1	147	94	41	0 49.3	
## 749	## -	748	1		74	41		
## 750 6 162 62 0 0 24.3 ## 751 4 136 70 0 0 31.2 ## 752 1 121 78 39 74 39.0 ## 753 3 108 62 24 0 26.0 ## 754 0 181 88 44 510 43.3 ## 755 8 154 78 32 0 32.4 ## 756 1 128 88 39 110 36.5 ## 757 7 137 90 41 0 32.0 ## 758 0 123 72 0 0 36.3								
## 751	II' TT							
## 752	0.0							
## 753 3 108 62 24 0 26.0 ## 754 0 181 88 44 510 43.3 ## 755 8 154 78 32 0 32.4 ## 756 1 128 88 39 110 36.5 ## 757 7 137 90 41 0 32.0 ## 758 0 123 72 0 0 36.3		151	4	136	70	0	0 31.2	
## 753 3 108 62 24 0 26.0 ## 754 0 181 88 44 510 43.3 ## 755 8 154 78 32 0 32.4 ## 756 1 128 88 39 110 36.5 ## 757 7 137 90 41 0 32.0 ## 758 0 123 72 0 0 36.3		, 0 =	1	121	78	39		
## 754 0 181 88 44 510 43.3 ## 755 8 154 78 32 0 32.4 ## 756 1 128 88 39 110 36.5 ## 757 7 137 90 41 0 32.0 ## 758 0 123 72 0 0 36.3	## -							
## 755 8 154 78 32 0 32.4 ## 756 1 128 88 39 110 36.5 ## 757 7 137 90 41 0 32.0 ## 758 0 123 72 0 0 36.3	## -	752		1 / 2		24	0 20.0	
## 756	## -	752 753	3					
## 757 7 137 90 41 0 32.0 ## 758 0 123 72 0 0 36.3	## - ## - ## -	752 753 754	3	181	88	44	510 43.3	
## 757 7 137 90 41 0 32.0 ## 758 0 123 72 0 0 36.3	## - ## - ## -	752 753 754	3	181	88	44	510 43.3	
## 758	## - ## - ## -	752 753 754 755	3 0 8	181 154	88 78	44 32	510 43.3 0 32.4	
	## - ## - ## - ## -	752 753 754 755 756	3 0 8 1	181 154 128	88 78 88	44 32 39	510 43.3 0 32.4 110 36.5	
## /59 1 106 76 0 0 37.5	## - ## - ## - ## -	752 753 754 755 756 757	3 0 8 1 7	181 154 128 137	88 78 88 90	44 32 39 41	510 43.3 0 32.4 110 36.5 0 32.0	
	## - ## - ## - ## - ## - ## - ## - ##	752 753 754 755 756 757	3 0 8 1 7	181 154 128 137 123	88 78 88 90 72	44 32 39 41 0	510 43.3 0 32.4 110 36.5 0 32.0 0 36.3	

# 750								
# 761	##	760	6 190		92	0	0 35.5	
# 762 9 170 74 31 0 44.0 #			2 88		58	2,6		
# 758								
# 766								
# 756								
# 766								
# 767								
# 768								
# Diabetes Pedigree Function Age Outcome # 1								
# 1						31	0 30.4	
# 2	##							
# 3								
# 4					0			
# 5	##	3	0.672	32	1			
# 6	##	4	0.167	21	0			
# 6	##	5	2.288	33	1			
# 7	##	6			0			
# 8								
# 9								
# 10								
# 11								
# 12								
# 13								
# 14								
# 15								
# 16	##	14			1			
# 16	##	15	0.587	51	1			
# 17					1			
# 18								
# 19								
# 20								
# 21								
# 22								
# 23								
# 24								
# 25								
# 26								
# 27	##	25	0.254	51	1			
# 27	##	26	0.205	41	1			
# 28					1			
# 29								
# 30								
# 31								
# 32								
# 33								
# 34								
# 35								
# 36								
# 37								
# 38								
# 39	#	37		35	0			
# 39	##	38	0.665	46	1			
# 40	##	39		27	1			
# 41	##	40						
# 42								
# 43								
# 44								
# 45								
# 46								
# 47								
# 48								
# 49								
# 50	##	48		22	0			
# 51	##	49		31	1			
# 51	##	50	0.305	24	0			
# 52	#	51		22	0			
# 53								
# 54								
# 55 0.718 42 0 # 56 0.248 21 0 # 57 0.254 41 1 # 58 0.962 31 0 # 59 1.781 44 0 # 60 0.173 22 0 # 61 0.304 21 0 # 62 0.270 39 1								
# 56 0.248 21 0 # 57 0.254 41 1 # 58 0.962 31 0 # 59 1.781 44 0 # 60 0.173 22 0 # 61 0.304 21 0 # 62 0.270 39 1								
# 57 0.254 41 1 # 58 0.962 31 0 # 59 1.781 44 0 # 60 0.173 22 0 # 61 0.304 21 0 # 62 0.270 39 1								
# 58 0.962 31 0 # 59 1.781 44 0 # 60 0.173 22 0 # 61 0.304 21 0 # 62 0.270 39 1								
# 59								
# 60 0.173 22 0 # 61 0.304 21 0 # 62 0.270 39 1	##	58	0.962	31	0			
# 60 0.173 22 0 # 61 0.304 21 0 # 62 0.270 39 1	##	59	1.781	44	0			
# 61 0.304 21 0 # 62 0.270 39 1	##	60		22	0			
# 62 0.270 39 1								
	-	-	207					

	#			U.38/	30	
	#			0.699	24	
	#			0.258	42	
	#			0.203	32	
#	#	67	7	0.855	38	1
#	#	68	}	0.845	54	0
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	#			0.189	27	
	#			0.867	28	
	#			0.411	26	
	#			0.583	42	1
#	#	74	l.	0.231	23	0
#	#	75)	0.396	22	0
	#			0.140	22	
	#			0.391	41	
	#			0.370	27	
	#			0.270	26	
	#			0.307	24	
#	#	81	-	0.140	22	0
	#			0.102	22	
	#			0.767	36	
	#			0.237	22	
	#			0.227	37	
#	#	86	5	0.698	27	0
	#			0.178	45	
	#			0.324	26	
	#			0.153	43	
	#			0.165	24	
#	#	91	-	0.258	21	0
#	#	92	2	0.443	34	0
	#			0.261	42	
	#			0.277	60	
	#			0.761	21	
#	#	96)	0.255	40	0
#	#	97	7	0.130	24	0
	#			0.323	22	
	#			0.356	23	
	#			0.325	31	
#	#	10)1	1.222	33	1
#	#	10)2	0.179	22	0
	#			0.262	21	
	#				24	
				0.283		
	#			0.930	27	
	#			0.801	21	
#	#	10	7	0.207	27	0
	#			0.287	37	
	#			0.336	25	
	#			0.247	24	
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#	#	11	. 2	0.543	46	1
#	#	11	.3	0.192	23	0
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	#					
	#			0.539	61	
#	#	11	.7	0.220	38	1
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				0.223		
	#				21	
	#			0.759	25	
#	#	12	22	0.260	24	0
	#			0.404	23	0
	#			0.186	69	
	#			0.278	23	
	#			0.496	26	1
#	#	12	27	0.452	30	0
	#			0.261	23	
	#			0.403	40	
	#			0.741	62	
#	#	13	31	0.361	33	1
#	#	13	32	1.114	33	1
	#			0.356	30	
	#			0.457	39	
#	#	т3	55	0.647	26	0

##	136	0.088 31	0
##			0
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##			0
##	140	0.159 28	0
##	141	0.268 55	0
##			0
			0
##			
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##	145	0.237 23	0
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##	149	0.218 65	0
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##			0
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##			0
##			0
##	159	0.229 22	0
##			1
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##			0
##			1
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##	167	0.256 22	0
##			0
##	169	0.471 29	0
##	170	0.495 29	0
##			1
##			1
##	173	0.773 25	0
##			0
##			0
##	176	0.719 36	1
##			0
##			1
##			0
##	180	0.956 37	1
##			0
##			0
##	183		0
##	184	0.268 27	0
##			0
##			1
##	187	0.615 60	1
##	188		1
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##	193	0.383 36	1
##			1
##			0
##	196	0.395 29	1
##	197		0
##			1
##	199	0.905 26	1
##	200	0.150 29	1
##			0
##			0
##	203	0.787 32	0
			0
##			
##	205	0.324 55	0
##			0
##			1
##	208	0.151 52	1

## 200	0 200	0.1	
## 209		21 0	
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## 212		24 0	
## 213		60 0	
## 214		24 1	
## 215		36 1	
## 216		38 1	
## 217		25 1	
## 218		32 0	
## 219		32 1	
## 220		41 1	
## 221		21 1	
## 222		66 1	
## 223		37 0	
## 224		61 0	
## 225		26 0	
## 226		22 0	
## 227		26 0	
## 228		24 1	
## 229		31 0	
## 230		24 0	
## 231		22 1	
## 232		46 1	
## 233		22 0	
## 234		29 0	
## 235		23 0	
## 236		26 1	
## 237		51 1	
## 238		23 1	
## 239		32 1	
## 240		27 0	
## 241		21 0	
## 242		22 0	
## 243		22 1	
## 244		33 1	
## 245		29 0	
## 246		49 1	
## 247		41 0	
## 248		23 0	
## 249		34 0	
## 250		23 0	
## 251		42 0	
## 252		27 0	
## 253		24 0	
## 254		25 0	
## 255		44 1	
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## 257		30 0	
## 258		25 0 24 0	
## 259 ## 260		24 0 51 1	
## 260 ## 261		34 0	
## 262		27 1	
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## 268		24 0	
## 269		21 0	
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## 271		38 1	
## 272		21 0	
## 273		40 0	
## 274		21 0	
## 275		52 0	
## 276		25 0	
## 277		29 1	
## 278		23 0	
## 279		57 0	
## 280		22 0	
шш 2001		20 1	

##			Τ
##			0
##			0
##			1
##	285		1
##	286	0.647 51	0
##	287	0.619 34	0
##			1
##			0
##			0
##			0
##	292	2 0.757 25	1
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##	294		1
##			0
##			
			0
##			1
##	298		0
##	299	9 0.412 46	1
##			0
##			1
##			1
##	303	0.156 35	0
##	304	4 0.209 28	1
##			0
##			0
##			1
##			0
##	309		1
##	310	0 0.875 30	1
##			0
##			0
##			1
##			0
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##			1
##			0
##	320	0.129 59	1
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##	322		1
##			1
##			1
##			0
##	326	0.123 24	0
##			1
##			0
##			1
##	330		0
##	331	1.476 46	0
##			0
##			1
##			0
##	335	0.260 22	0
##	336		0
##			0
##			1
##			1
##	340	0.331 41	1
##			0
##			0
##			0
##	344		0
##	345	5 0.485 57	0
##			0
##			0
##			0
##			0
##	350	0.346 37	1
##			0
##			0
##	353	0.243 46	0

##	354		0.580	24	0
##	355		0.559	21	0
##	356		0.302	49	1
##	357		0.962	28	1
	358		0.569	44	1
	359		0.378	48	0
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##			0.583	29	1
##	362		0.207	63	0
##	363		0.305	65	0
##	364		0.520	67	1
	365		0.385	30	0
##				30	
			0.499		0
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##	369		0.306	22	0
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##			2.137	25	1
	372		1.731	21	0
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##	375		0.816	28	0
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	377			22	0
			0.299		
	378		0.509	22	0
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	387		0.660	35	1
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			0.239	45	1
	389		0.452	58	1
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##	391		0.444	42	0
##	392		0.340	27	1
	393		0.389	21	0
	394		0.463		
	395		0.803		1
##	396		1.600	25	0
	397		0.944		0
	398		0.196		1
	399		0.389		0
	400		0.241		1
##	401		0.161	31	1
##	402		0.151		0
	403		0.286		
	404		0.280		0
	405		0.135		
##	406		0.520	26	0
##	407		0.376		1
	408		0.336		
	409		1.191		1
##	410		0.702		1
##	411		0.674	28	0
	412		0.528		
	413		1.076		
	414		0.256		
##	415		0.534	21	1
	416		0.258		
	417		1.095		
	418		0.554		
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##	420		0.219	28	1
	421		0.507		0
	422		0.561		0
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##	424		0.421	21	0
##	425		0.516	36	1
	426		0.264		1

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## 428	C
## 429	1
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## 444	C
## 445	C
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## 457 ## 458 0.364 24 ## 459 1.001 51 ## 460 0.460 81 ## 461 0.733 48 ## 462 0.416 26 ## 463 0.705 39 ## 464 0.258 37 ## 465 1.022 34 ## 466 0.452 21 ## 467 0.269 22 ## 468 0.600 25 ## 470 0.571 27 ## 471 0.607 28 ## 472 0.170 22 ## 473 0.259 22 ## 474 0.210 50 ## 475 ## 476 0.231 59 ## 477 0.711 29 ## 478 0.466 31 ## 479 ## 480 0.419 63 ## 481 ## 482 0.197 29 ## 483 ## 484 0.233 23 ## 484 ## 485 ## 486 ## 487 ## 488 1.159 58 ## 489 ## 489 ## 490 0.551 67 ## 491 ## 492 ## 493 ## 494 ## 495 ## 496 ## 497 0.292 30 ## 496 ## 497 ## 496 ## 497 ## 496 ## 497 ## 496 ## 497 ## 496 ## 497 ## 496 ## 497 ## 496 ## 497 ## 496 ## 497 ## 496 ## 497 ## 498	1
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## 486 0.365 24 ## 487 0.536 21 ## 488 1.159 58 ## 489 0.294 28 ## 490 0.551 67 ## 491 0.629 24 ## 492 0.292 42 ## 493 0.145 33 ## 494 1.144 45 ## 495 0.174 22 ## 496 0.304 66 ## 497 0.292 30 ## 498	1
## 487 0.536 21 ## 488 1.159 58 ## 489 0.294 28 ## 490 0.551 67 ## 491 0.629 24 ## 492 0.292 42 ## 493 0.145 33 ## 494 1.144 45 ## 495 0.174 22 ## 496 0.304 66 ## 497 0.292 30 ## 498	1
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	##		0.839	39	0
	##		0.313	21	0
		502	0.267	28	0
		503	0.727	41	1
	##	504	0.738	41	0
	##	505	0.238	40	0
		506	0.263	38	0
		507	0.314	35	1
	##		0.692	21	0
		509	0.968	21	0
	##	510	0.409	64	0
	##	511	0.297	46	1
		512	0.207	21	0
		513	0.200	58	0
		514	0.525	22	0
		515	0.154	24	0
	##	516	0.268	28	1
	##	517	0.771	53	1
	##		0.304	51	0
		519			
			0.180	41	0
		520	0.582	60	0
:	##	521	0.187	25	0
:	##	522	0.305	26	0
		523	0.189	26	0
		524	0.652	45	1
		525	0.151	24	0
		526	0.444	21	0
	##	527	0.299	21	0
	##	528	0.107	24	0
		529	0.493	22	0
		530	0.660	31	0
				22	
	## .		0.717		0
		532	0.686	24	0
:	##	533	0.917	29	0
:	##	534	0.501	31	0
	##	535	1.251	24	0
		536	0.302	23	1
		537	0.197	46	
					0
		538	0.735	67	0
1	##	539	0.804	23	0
:	##	540	0.968	32	1
	##	541	0.661	43	1
		542	0.549	27	1
		543	0.825		1
				56	
		544	0.159	25	0
1	##	545	0.365	29	0
	##	546	0.423	37	1
	##	547	1.034	53	1
		548	0.160	28	0
		549		50	0
		550	0.680	37	0
		551	0.204	21	0
	##	552	0.591	25	0
		553	0.247	66	0
		554	0.422	23	0
		555	0.471	28	0
		556	0.161	37	0
	##	557	0.218	30	0
		558	0.237	58	0
		559		42	0
		560	0.300	35	0
	##	561	0.121	54	1
		562	0.502	28	1
		563	0.401	24	0
		564	0.497	32	0
		565	0.601	27	0
	##	566	0.748	22	0
	##	567	0.412	21	0
		568	0.085	46	0
		569		37	0
		570	0.203	33	1
	##	571	0.270	39	0

# # # # # # # # # # # # # # # # # # #	##	572	0.268 21	0
# # # # # # # # # # # # # # # # # # #		573	0.430 22	0
# # # # # # # # # # # # # # # # # # #	##	574	0.198 22	0
# # # # # # # # # # # # # # # # # # #	##	575	0.892 23	0
# # # # # # # # # # # # # # # # # # #	##	576	0.280 25	0
# # # # # # # # # # # # # # # # # # #	##	577	0.813 35	0
# # # # # # # # # # # # # # # # # # #		578	0.693 21	1
# # # # # # # # # # # # # # # # # # #		579	0.245 36	0
# # # # # # # # # # # # # # # # # # # #		580	0.575 62	1
# # # # # # # # # # # # # # # # # # #			0.371 21	1
# # # # # # # # # # # # # # # # # # #			0.206 27	0
# # # # # # # # # # # # # # # # # # #				0
# # # # # # # # # # # # # # # # # # #			0.259 62	
# # # # # # # # # # # # # # # # # # #		584	0.190 42	0
# # # # # # # # # # # # # # # # # # #		585	0.687 52	1
# # # # # # # # # # # # # # # # # # #		586	0.417 22	0
# # # # # # # # # # # # # # # # # # #	##	587	0.129 41	1
# # # # # # # # # # # # # # # # # # #	##	588	0.249 29	0
# # # # # # # # # # # # # # # # # # #	##	589	1.154 52	1
# # # # # # # # # # # # # # # # # # #	##	590	0.342 25	0
# # # # # # # # # # # # # # # # # # #	##	591	0.925 45	1
# # # # # # # # # # # # # # # # # # #		592	0.175 24	0
# # # # # # # # # # # # # # # # # # #				1
# # # # # # # # # # # # # # # # # # #				
# # # # # # # # # # # # # # # # # # # #			1.699 25	0
# # # # # # # # # # # # # # # # # # # #		595	0.733 34	0
# # # # # # # # # # # # # # # # # # # #		596	0.682 22	1
#######################################		597	0.194 46	0
# # # # # # # # # # # # # # # # # # # #	##	598	0.559 21	0
# # # # # # # # # # # # # # # # # # # #	##	599	0.088 38	1
# # # # # # # # # # # # # # # # # # # #	##	600	0.407 26	0
# # # # # # # # # # # # # # # # # # # #		601	0.400 24	0
# # # # # # # # # # # # # # # # # # # #		602	0.190 28	0
# # # # # # # # # # # # # # # # # # # #		603	0.100 30	0
# # # # # # # # # # # # # # # # # # # #				
# # # # # # # # # # # # # # # # # # # #			0.692 54	1
# # # # # # # # # # # # # # # # # # # #		605	0.212 36	1
# # # # # # # # # # # # # # # # # # # #		606	0.514 21	0
# # # # # # # # # # # # # # # # # # # #	##	607	1.258 22	1
#######################################	##	608	0.482 25	0
#######################################	##	609	0.270 27	0
# # # # # # # # # # # # # # # # # # # #		610	0.138 23	0
# # # # # # # # # # # # # # # # # # # #		611	0.292 24	0
# # # # # # # # # # # # # # # # # # # #		612	0.593 36	1
# # # # # # # # # # # # # # # # # # # #				1
# # # # # # # # # # # # # # # # # # # #				
#######################################		614	0.878 26	0
#######################################		615	0.557 50	1
# # # # # # # # # # # # # # # # # # # #		616	0.207 27	0
# # # # # # # # # # # # # # # # # # # #		617	0.157 30	0
#######################################	##	618	0.257 23	0
#######################################	##	619	1.282 50	1
#######################################		620	0.141 24	1
#######################################		621	0.246 28	0
#######################################		622	1.698 28	0
# # # # # # # # # # # # # # # # # # # #			1.461 45	0
## ## ## ## ## ## ## ##				
## ## ## ## ## ## ## ##		624	0.347 21	0
## ## ## ## ## ## ##		625	0.158 21	0
## ## ## ## ## ## ##		626	0.362 29	0
## ## ## ## ## ## ##	##	627	0.206 21	0
## ## ## ## ## ## ##		628	0.393 21	0
## ## ## ## ## ##		629	0.144 45	0
## ## ## ## ## ##		630	0.148 21	0
## ## ## ## ##			0.732 34	1
## ## ## ## ##				
## ## ## ##		632	0.238 24	0
## ## ## ##		633	0.343 23	0
## ## ##		634	0.115 22	0
## ## ##	##	635	0.167 31	0
##		636	0.465 38	1
##		637	0.153 48	0
##		638	0.649 23	0
			0.871 32	1
		640	0.149 28	0
		641	0.695 27	0
##	##	642	0.303 24	0
##	##	643	0.178 50	1
##	##	644	0.610 31	0

##	645	0.730	27	0
##	646	0.730	30	0
##	647	0.447	33	1
##	648	0.455	22	1
##	649	0.455	42	1
##	650	0.280	23	0
##		0.234	23	0
	651			
##	652	0.466	27	0
##	653	0.269	28	0
##	654 655	0.455	27 22	0
##		0.142		0
##	656	0.240	25	1
##	657	0.155	22	0
##	658	1.162	41	0
##	659	0.190	51	0
##	660	1.292	27	1
##	661	0.182	54	0
##	662	1.394	22	1
##	663	0.165	43	1
##	664	0.637	40	1
##	665	0.245	40	1
##	666	0.217	24	0
##	667	0.235	70	1
##	668	0.141	40	1
##	669	0.430	43	0
##	670	0.164	45	0
##	671	0.631	49	0
##	672	0.551	21	0
##	673	0.285	47	0
##	674	0.880	22	0
##	675	0.587	68	0
##	676	0.328	31	1
##	677	0.230	53	1
##	678	0.263	25	0
##	679	0.127	25	1
##	680	0.614	23	0
##	681	0.332	2.2	0
##	682	0.364	26	1
##	683	0.366	22	0
##	684	0.536	27	1
##	685	0.640	69	0
##	686	0.591	25	0
##	687	0.314	22	0
##	688	0.181	29	0
##	689	0.828	23	0
##	690	0.335	46	1
##	691	0.856	34	0
##	692	0.257	44	1
##	693	0.886	23	0
##	694	0.439	43	1
##	695	0.191	25	0
##	696	0.128	43	1
##	697	0.268	31	1
##	698699	0.253	22 28	0
##	700	0.904	26	0
		0.483		
##	701 702	0.483	26 49	0
##	703	0.905	52	1
##	704	0.304	41	0
##	705	0.118	27	0
##	706	0.177	28	0
##	707	0.261	30	1
##	708	0.176	22	0
##	709	0.148	45	1
##	710	0.674	23	1
##	711	0.295	24	0
##	712	0.439	40	0
##	713	0.441	38	1
##	714	0.352	21	0
##	715	0.121	32	0
##	716	0.826	34	1
т т	717	0.020	21	1

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0.9/0 31
## / 1 /
## 718
                       0.595 56
## 719
                       0.415
                              24
## 720
                       0.378 52
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                       0.317 34
## 721
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                                      Ω
## 723
                       0.349 42
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## 724
                       0.251 42
## 725
                       0.265 45
## 726
                       0.236 38
## 727
                       0.496 25
## 728
                       0.433 22
                                      0
                       0.326 22
## 729
                                      Ω
                       0.141 22
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## 731
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## 732
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                       0.560 53
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## 736
                       0.284 28
                                      Ω
## 737
                       0.515 21
## 738
                       0.600 42
## 739
                       0.453 21
## 740
                       0.293 42
## 741
                       0.785 48
## 742
                       0.400 26
                                      Ω
                       0.219 22
## 743
                                      0
## 744
                       0.734 45
                                      1
                       1.174 39
## 745
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                       0.488
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## 747
                       0.358 27
## 748
                       1.096 32
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                       0.408 36
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## 750
                       0.178 50
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                       1.182 22
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## 752
                       0.261 28
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## 754
                       0.222 26
                                      1
## 755
                       0.443 45
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                       1.057 37
## 756
                                      1
                       0.391 39
## 757
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## 758
                       0.258 52
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                       0.197 26
## 760
                       0.278 66
                       0.766 22
## 761
                                      0
## 762
                       0.403 43
                                      1
                       0.142 33
## 763
                                      Ω
## 764
                       0.171 63
## 765
                       0.340 27
## 766
                       0.245 30
## 767
                       0.349 47
## 768
                       0.315 23
```

```
library (Amelia) #This library is used to plot missmap
```

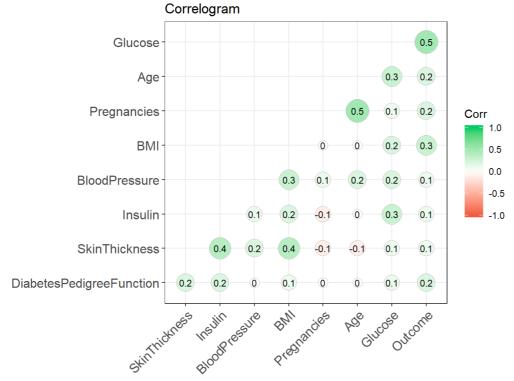
```
## Warning: package 'Amelia' was built under R version 3.5.2
```

```
## Loading required package: Rcpp

## ##
## ## Amelia II: Multiple Imputation
## ## (Version 1.7.5, built: 2018-05-07)
## ## Copyright (C) 2005-2019 James Honaker, Gary King and Matthew Blackwell
## ## Refer to http://gking.harvard.edu/amelia/ for more information
## ##
```

library (ggplot2)

```
## Warning: package 'ggplot2' was built under R version 3.5.2
library (ggcorrplot)
\#\# Warning: package 'ggcorrplot' was built under R version 3.5.2
library (GGally)
## Warning: package 'GGally' was built under R version 3.5.2
library (PerformanceAnalytics)
## Warning: package 'PerformanceAnalytics' was built under R version 3.5.2
## Loading required package: xts
## Warning: package 'xts' was built under R version 3.5.2
## Loading required package: zoo
## Warning: package 'zoo' was built under R version 3.5.2
## Attaching package: 'zoo'
## The following objects are masked from 'package:base':
##
\# \#
     as.Date, as.Date.numeric
## Attaching package: 'PerformanceAnalytics'
## The following object is masked from 'package:graphics':
##
##
     legend
library (gridExtra)
## Warning: package 'gridExtra' was built under R version 3.5.2
# Correlation matrix
\#This\ plot\ shows\ us\ correlation\ coeeficents\ of\ all\ the\ varaibles.
data(diabetes)
## Warning in data(diabetes): data set 'diabetes' not found
corr <- round(cor(diabetes), 1)</pre>
ggcorrplot(corr, hc.order = TRUE,
          type = "lower",
           lab = TRUE,
          lab_size = 3,
           method="circle",
           colors = c("tomato2", "white", "springgreen3"),
           title="Correlogram",
           ggtheme=theme_bw)
```



```
# From the plot, we can say that the variable Glucose has a higher impact on the Outcome variable. They are highly Co-rrelated.

#Pregnancies and Age are strongly correlated with coeeficient value 0.54.

#SkinThickness , BMI and Skinthickness and Insulin are positively correlated with coeeficient values 0.4.

#Changing outcome from numerical to categorical varibale.
diabetes$Outcome<- is.factor(diabetes$Outome)
levels(diabetes$Outcome) <- c("No", "Yes")

#correlation plot
#This plot shows the relationship between the variables.
ggpairs(diabetes, aes(color=Outcome, alpha=0.75), lower=list(continuous="smooth"))+ theme_bw()+
labs(title="Correlation Plot of Variance(diabetes)")+
theme(plot.title=element_text(face='bold',color='black',hjust=0.5,size=12))
```

```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.

## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.

## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.

## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.

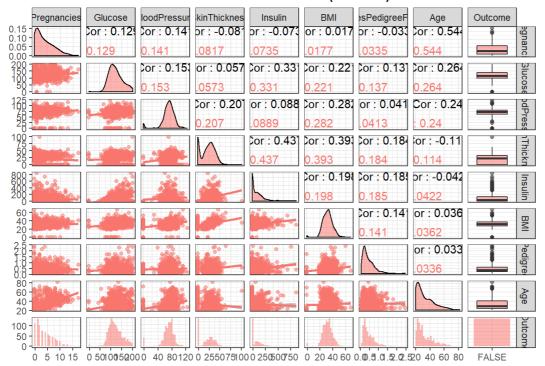
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.

## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.

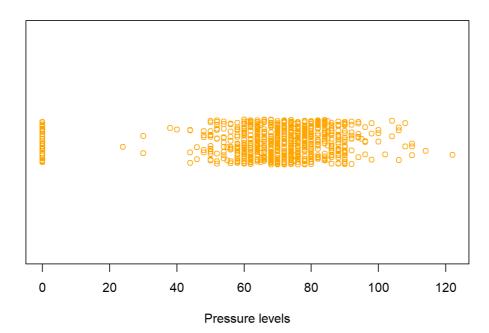
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.

## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```

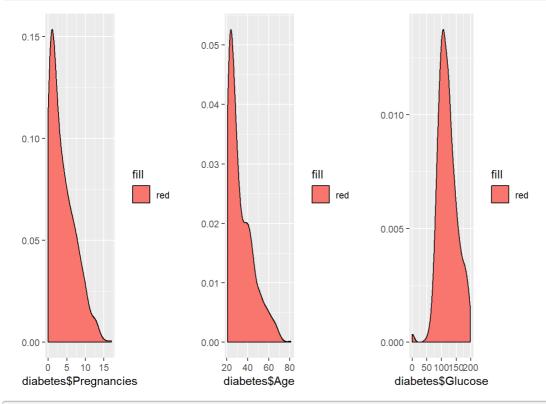
Correlation Plot of Variance(diabetes)



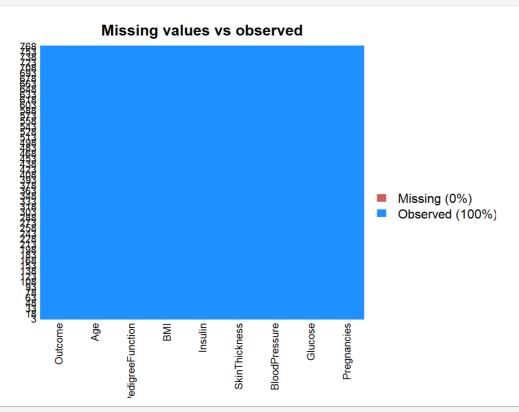
Blood pressure levels



```
#Densityplots
plot1 = qplot(diabetes$Pregnancies, data = diabetes, geom = "density", fill = "red")
plot2 = qplot(diabetes$Age, data = diabetes, geom = "density", fill = "red")
plot3 = qplot(diabetes$Glucose, data = diabetes, geom = "density", fill = "red")
plot4 = qplot(diabetes$BloodPressure, data = diabetes, geom = "density", fill = "red")
grid.arrange(plot1, plot2, plot3, ncol = 3)
```



#The density plot here shows the distribution of the data and if they are positively or negatively skewed.
#Plots a missingness map showing where missingness occurs in the dataset
missmap(diabetes, main ="Missing values vs observed")



#No missing Values occured in our dataset.