homework4.R

siddh

Sat Feb 23 00:16:14 2019

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

```
Glucose
                             BloodPressure SkinThickness
  Pregnancies
## Min. : 0.000 Min. : 0.0 Min. : 0.00 Min. : 0.00
## 1st Qu.: 1.000 1st Qu.: 99.0 1st Qu.: 62.00 1st Qu.: 0.00
## Median: 3.000 Median: 117.0 Median: 72.00 Median: 23.00
## Mean : 3.845 Mean :120.9 Mean : 69.11 Mean :20.54
## 3rd Qu.: 6.000 3rd Qu.:140.2 3rd Qu.: 80.00 3rd Qu.:32.00
## Max. :17.000 Max. :199.0 Max. :122.00 Max. :99.00
                BMI
                             DiabetesPedigreeFunction Age
##
   Insulin
##
  Min. : 0.0
               Min. : 0.00
                             Min. :0.0780
                                              Min. :21.00
   1st Qu.: 0.0
                1st Qu.:27.30
                             1st Qu.:0.2437
                                                  1st Qu.:24.00
## Median: 30.5 Median: 32.00 Median: 0.3725
                                                 Median :29.00
## Mean : 79.8 Mean :31.99 Mean :0.4719
                                                 Mean :33.24
## 3rd Qu.:127.2
               3rd Qu.:36.60 3rd Qu.:0.6262
                                                 3rd Qu.:41.00
## Max. :846.0 Max. :67.10 Max. :2.4200
                                                 Max. :81.00
##
   Outcome
## Min. :0.000
## 1st Qu.:0.000
## Median :0.000
## Mean :0.349
## 3rd Qu.:1.000
## Max. :1.000
```

```
#columns
#PregnanciesNumber 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
## 2
                85
                                     29
## 3
          8
               183
                          64
                                      0
                                            0 23.3
## 4
          1
               89
                          66
                                      23
                                           94 28.1
                                     35
          0
                                          168 43.1
## 5
               137
                           40
                                      0
          5
                           74
## 6
               116
                                           0 25.6
## DiabetesPedigreeFunction Age Outcome
## 1
                  0.627 50 1
                  0.351 31
## 2
                  0.672 32
## 3
                  0.167 21
## 4
                  2.288 33
## 5
                 0.201 30
## 6
```

structure(diabetes)

##		Pregnancies	Glucose	BloodPressure	SkinThickness	Insulin	BMI
##	1	6	148	72	35	0	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

0	1.0	115	0	0	0 25 2
## 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	8 4	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	0 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	140 23.2
## 29	13	145	82	19	110 22.2
## 30	5	117	92	0	0 34.1
## 31	5	109	75	26	0 36.0
## 32	3	158	76	36	245 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
## 38	9	102	76	37	0 32.9
## 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
	7	103	66	32	0 39.1
## 49	7			32	
## 49 ## 50	7	105	0	0	0 0.0
		105 103	0 80		0 0.0 82 19.4
## 50 ## 51	7 1	103	80	0 11	82 19.4
## 50 ## 51 ## 52	7 1 1	103 101	80 50	0 11 15	82 19.4 36 24.2
## 50 ## 51 ## 52 ## 53	7 1 1 5	103 101 88	80 50 66	0 11 15 21	82 19.4 36 24.2 23 24.4
## 50 ## 51 ## 52 ## 53 ## 54	7 1 1 5 8	103 101 88 176	80 50 66 90	0 11 15 21 34	82 19.4 36 24.2 23 24.4 300 33.7
## 50 ## 51 ## 52 ## 53 ## 54 ## 55	7 1 1 5 8 7	103 101 88 176 150	80 50 66 90 66	0 11 15 21 34 42	82 19.4 36 24.2 23 24.4 300 33.7 342 34.7
## 50 ## 51 ## 52 ## 53 ## 54 ## 55 ## 56	7 1 1 5 8 7 1	103 101 88 176 150 73	80 50 66 90 66 50	0 11 15 21 34 42	82 19.4 36 24.2 23 24.4 300 33.7 342 34.7 0 23.0
## 50 ## 51 ## 52 ## 53 ## 54 ## 55 ## 56 ## 57	7 1 1 5 8 7 1	103 101 88 176 150 73 187	80 50 66 90 66	0 11 15 21 34 42	82 19.4 36 24.2 23 24.4 300 33.7 342 34.7 0 23.0 304 37.7
## 50 ## 51 ## 52 ## 53 ## 54 ## 55 ## 56	7 1 1 5 8 7 1	103 101 88 176 150 73	80 50 66 90 66 50	0 11 15 21 34 42	82 19.4 36 24.2 23 24.4 300 33.7 342 34.7 0 23.0
## 50 ## 51 ## 52 ## 53 ## 54 ## 55 ## 56 ## 57	7 1 1 5 8 7 1	103 101 88 176 150 73 187	80 50 66 90 66 50	0 11 15 21 34 42 10	82 19.4 36 24.2 23 24.4 300 33.7 342 34.7 0 23.0 304 37.7
## 50 ## 51 ## 52 ## 53 ## 54 ## 55 ## 56 ## 57 ## 58	7 1 1 5 8 7 1 7	103 101 88 176 150 73 187	80 50 66 90 66 50 68	0 11 15 21 34 42 10 39 60	82 19.4 36 24.2 23 24.4 300 33.7 342 34.7 0 23.0 304 37.7 110 46.8
## 50 ## 51 ## 52 ## 53 ## 54 ## 55 ## 56 ## 57 ## 58 ## 59 ## 60	7 1 1 5 8 7 1 7 0	103 101 88 176 150 73 187 100 146	80 50 66 90 66 50 68 88 82	0 11 15 21 34 42 10 39 60 0	82 19.4 36 24.2 23 24.4 300 33.7 342 34.7 0 23.0 304 37.7 110 46.8 0 40.5 142 41.5
## 50 ## 51 ## 52 ## 53 ## 54 ## 55 ## 56 ## 57 ## 58 ## 59 ## 60 ## 61	7 1 1 5 8 7 1 7 0 0	103 101 88 176 150 73 187 100 146 105 84	80 50 66 90 66 50 68 88 82 64	0 11 15 21 34 42 10 39 60 0 41	82 19.4 36 24.2 23 24.4 300 33.7 342 34.7 0 23.0 304 37.7 110 46.8 0 40.5 142 41.5 0 0.0
## 50 ## 51 ## 52 ## 53 ## 54 ## 55 ## 56 ## 57 ## 58 ## 59 ## 60 ## 61 ## 62	7 1 1 5 8 7 1 7 0 0 0 2 8	103 101 88 176 150 73 187 100 146 105 84 133	80 50 66 90 66 50 68 88 82 64 0	0 11 15 21 34 42 10 39 60 0 41	82 19.4 36 24.2 23 24.4 300 33.7 342 34.7 0 23.0 304 37.7 110 46.8 0 40.5 142 41.5 0 0.0 0 32.9
## 50 ## 51 ## 52 ## 53 ## 55 ## 55 ## 56 ## 57 ## 58 ## 59 ## 60 ## 61 ## 62 ## 63	7 1 1 5 8 7 1 7 0 0 0 2 8 5	103 101 88 176 150 73 187 100 146 105 84 133 44	80 50 66 90 66 50 68 88 82 64 0 72	0 11 15 21 34 42 10 39 60 0 41 0	82 19.4 36 24.2 23 24.4 300 33.7 342 34.7 0 23.0 304 37.7 110 46.8 0 40.5 142 41.5 0 0.0 0 32.9 0 25.0
## 50 ## 51 ## 52 ## 53 ## 55 ## 55 ## 56 ## 57 ## 58 ## 59 ## 60 ## 61 ## 62 ## 63 ## 64	7 1 1 5 8 7 1 7 0 0 2 8 5 2	103 101 88 176 150 73 187 100 146 105 84 133 44	80 50 66 90 66 50 68 88 82 64 0 72 62	0 11 15 21 34 42 10 39 60 0 41 0	82 19.4 36 24.2 23 24.4 300 33.7 342 34.7 0 23.0 304 37.7 110 46.8 0 40.5 142 41.5 0 0.0 0 32.9 0 25.0 128 25.4
## 50 ## 51 ## 52 ## 53 ## 55 ## 55 ## 56 ## 57 ## 58 ## 60 ## 61 ## 62 ## 63 ## 64 ## 65	7 1 1 5 8 7 1 7 0 0 0 2 8 5 2 7	103 101 88 176 150 73 187 100 146 105 84 133 44 141	80 50 66 90 66 50 68 88 82 64 0 72	0 11 15 21 34 42 10 39 60 0 41 0	82 19.4 36 24.2 23 24.4 300 33.7 342 34.7 0 23.0 304 37.7 110 46.8 0 40.5 142 41.5 0 0.0 0 32.9 0 25.0 128 25.4 0 32.8
## 50 ## 51 ## 52 ## 53 ## 55 ## 55 ## 56 ## 57 ## 58 ## 59 ## 60 ## 61 ## 62 ## 63 ## 64	7 1 1 5 8 7 1 7 0 0 2 8 5 2	103 101 88 176 150 73 187 100 146 105 84 133 44	80 50 66 90 66 50 68 88 82 64 0 72 62	0 11 15 21 34 42 10 39 60 0 41 0	82 19.4 36 24.2 23 24.4 300 33.7 342 34.7 0 23.0 304 37.7 110 46.8 0 40.5 142 41.5 0 0.0 0 32.9 0 25.0 128 25.4
## 50 ## 51 ## 52 ## 53 ## 55 ## 55 ## 56 ## 57 ## 58 ## 60 ## 61 ## 62 ## 63 ## 64 ## 65	7 1 1 5 8 7 1 7 0 0 0 2 8 5 2 7	103 101 88 176 150 73 187 100 146 105 84 133 44 141	80 50 66 90 66 50 68 88 82 64 0 72 62 58	0 11 15 21 34 42 10 39 60 0 41 0	82 19.4 36 24.2 23 24.4 300 33.7 342 34.7 0 23.0 304 37.7 110 46.8 0 40.5 142 41.5 0 0.0 0 32.9 0 25.0 128 25.4 0 32.8
## 50 ## 51 ## 52 ## 53 ## 54 ## 55 ## 56 ## 57 ## 58 ## 60 ## 61 ## 62 ## 63 ## 64 ## 65 ## 66	7 1 1 5 8 7 1 7 0 0 2 8 5 2 7 5	103 101 88 176 150 73 187 100 146 105 84 133 44 141 114	80 50 66 90 66 50 68 88 82 64 0 72 62 58 66 74	0 11 15 21 34 42 10 39 60 0 41 0 0 0 34 0	82 19.4 36 24.2 23 24.4 300 33.7 342 34.7 0 23.0 304 37.7 110 46.8 0 40.5 142 41.5 0 0.0 0 32.9 0 25.0 128 25.4 0 32.8 0 29.0
## 50 ## 51 ## 52 ## 53 ## 55 ## 55 ## 56 ## 57 ## 58 ## 60 ## 61 ## 62 ## 63 ## 64 ## 64 ## 65 ## 66 ## 67	7 1 1 5 8 7 1 7 0 0 2 8 5 2 7 5 0	103 101 88 176 150 73 187 100 146 105 84 133 44 141 114 99 109	80 50 66 90 66 50 68 88 82 64 0 72 62 58 66 74 88 92	0 11 15 21 34 42 10 39 60 0 41 0 0 0 34 0	82 19.4 36 24.2 23 24.4 300 33.7 342 34.7 0 23.0 304 37.7 110 46.8 0 40.5 142 41.5 0 0.0 0 32.9 0 25.0 128 25.4 0 32.8 0 29.0 0 32.5 0 42.7
## 50 ## 51 ## 52 ## 53 ## 55 ## 55 ## 56 ## 57 ## 58 ## 60 ## 61 ## 62 ## 63 ## 64 ## 65 ## 66 ## 67 ## 68 ## 69	7 1 1 5 8 7 1 7 0 0 0 2 8 5 2 7 5 0 2 1	103 101 88 176 150 73 187 100 146 105 84 133 44 141 114 99 109 95	80 50 66 90 66 50 68 88 82 64 0 72 62 58 66 74 88 92 66	0 11 15 21 34 42 10 39 60 0 41 0 0 0 34 0	82 19.4 36 24.2 23 24.4 300 33.7 342 34.7 0 23.0 304 37.7 110 46.8 0 40.5 142 41.5 0 0.0 0 32.9 0 25.0 128 25.4 0 32.8 0 29.0 0 32.5 0 42.7 38 19.6
## 50 ## 51 ## 52 ## 53 ## 54 ## 55 ## 56 ## 57 ## 58 ## 60 ## 61 ## 62 ## 63 ## 64 ## 65 ## 66 ## 67 ## 68 ## 69 ## 70	7 1 1 5 8 7 1 7 0 0 0 2 8 5 2 7 5 0 2 1 4	103 101 88 176 150 73 187 100 146 105 84 133 44 141 114 99 109 109 95 146	80 50 66 90 66 50 68 88 82 64 0 72 62 58 66 74 88 92 66 85	0 11 15 21 34 42 10 39 60 0 41 0 0 0 34 0 27 30 0	82 19.4 36 24.2 23 24.4 300 33.7 342 34.7 0 23.0 304 37.7 110 46.8 0 40.5 142 41.5 0 0.0 0 32.9 0 25.0 128 25.4 0 32.8 0 29.0 0 32.5 0 42.7 38 19.6 100 28.9
## 50 ## 51 ## 52 ## 53 ## 54 ## 55 ## 56 ## 57 ## 58 ## 60 ## 61 ## 62 ## 63 ## 64 ## 65 ## 66 ## 67 ## 68 ## 69 ## 70 ## 71	7 1 1 5 8 7 1 7 0 0 0 2 8 5 2 7 5 0 2 1 4 2	103 101 88 176 150 73 187 100 146 105 84 133 44 141 114 99 109 109 95 146 100	80 50 66 90 66 50 68 88 82 64 0 72 62 58 66 74 88 92 66 85 66	0 11 15 21 34 42 10 39 60 0 41 0 0 34 0 27 30 0 13 27 20	82 19.4 36 24.2 23 24.4 300 33.7 342 34.7 0 23.0 304 37.7 110 46.8 0 40.5 142 41.5 0 0.0 0 32.9 0 25.0 128 25.4 0 32.8 0 29.0 0 32.5 0 42.7 38 19.6 100 28.9 90 32.9
## 50 ## 51 ## 52 ## 53 ## 54 ## 55 ## 56 ## 57 ## 58 ## 60 ## 61 ## 62 ## 63 ## 64 ## 65 ## 66 ## 67 ## 68 ## 67 ## 68 ## 69 ## 70 ## 71 ## 72	7 1 1 5 8 7 1 7 0 0 0 2 8 5 2 7 5 0 2 1 4 2 5	103 101 88 176 150 73 187 100 146 105 84 133 44 141 114 99 109 109 95 146 100 139	80 50 66 90 66 50 68 88 82 64 0 72 62 58 66 74 88 92 66 85 66 66 64	0 11 15 21 34 42 10 39 60 0 41 0 0 34 0 27 30 0 13 27 20 35	82 19.4 36 24.2 23 24.4 300 33.7 342 34.7 0 23.0 304 37.7 110 46.8 0 40.5 142 41.5 0 0.0 0 32.9 0 25.0 128 25.4 0 32.8 0 29.0 0 32.5 0 42.7 38 19.6 100 28.9 90 32.9 140 28.6
## 50 ## 51 ## 52 ## 53 ## 54 ## 55 ## 56 ## 57 ## 58 ## 60 ## 61 ## 62 ## 63 ## 64 ## 65 ## 66 ## 67 ## 68 ## 67 ## 68 ## 69 ## 70 ## 71 ## 72 ## 72	7 1 1 5 8 7 1 7 0 0 0 2 8 5 2 7 5 0 2 1 4 2 5 13	103 101 88 176 150 73 187 100 146 105 84 133 44 141 114 99 109 109 95 146 100 139 126	80 50 66 90 66 50 68 88 82 64 0 72 62 58 66 74 88 92 66 85 66 64 90	0 11 15 21 34 42 10 39 60 0 41 0 0 34 0 27 30 0 13 27 20 35 0	82 19.4 36 24.2 23 24.4 300 33.7 342 34.7 0 23.0 304 37.7 110 46.8 0 40.5 142 41.5 0 0.0 0 32.9 0 25.0 128 25.4 0 32.8 0 29.0 0 32.5 0 42.7 38 19.6 100 28.9 90 32.9 140 28.6 0 43.4
## 50 ## 51 ## 52 ## 53 ## 54 ## 55 ## 56 ## 57 ## 58 ## 59 ## 60 ## 61 ## 62 ## 63 ## 64 ## 65 ## 66 ## 67 ## 68 ## 67 ## 68 ## 69 ## 70 ## 71 ## 72	7 1 1 5 8 7 1 7 0 0 0 2 8 5 2 7 5 0 2 1 4 2 5	103 101 88 176 150 73 187 100 146 105 84 133 44 141 114 99 109 109 95 146 100 139	80 50 66 90 66 50 68 88 82 64 0 72 62 58 66 74 88 92 66 85 66 66 64	0 11 15 21 34 42 10 39 60 0 41 0 0 34 0 27 30 0 13 27 20 35	82 19.4 36 24.2 23 24.4 300 33.7 342 34.7 0 23.0 304 37.7 110 46.8 0 40.5 142 41.5 0 0.0 0 32.9 0 25.0 128 25.4 0 32.8 0 29.0 0 32.5 0 42.7 38 19.6 100 28.9 90 32.9 140 28.6
## 50 ## 51 ## 52 ## 53 ## 54 ## 55 ## 56 ## 57 ## 58 ## 60 ## 61 ## 62 ## 63 ## 64 ## 65 ## 66 ## 67 ## 68 ## 67 ## 68 ## 69 ## 70 ## 71 ## 72 ## 72	7 1 1 5 8 7 1 7 0 0 0 2 8 5 2 7 5 0 2 1 4 2 5 13	103 101 88 176 150 73 187 100 146 105 84 133 44 141 114 99 109 109 95 146 100 139 126	80 50 66 90 66 50 68 88 82 64 0 72 62 58 66 74 88 92 66 85 66 64 90	0 11 15 21 34 42 10 39 60 0 41 0 0 34 0 27 30 0 13 27 20 35 0	82 19.4 36 24.2 23 24.4 300 33.7 342 34.7 0 23.0 304 37.7 110 46.8 0 40.5 142 41.5 0 0.0 0 32.9 0 25.0 128 25.4 0 32.8 0 29.0 0 32.5 0 42.7 38 19.6 100 28.9 90 32.9 140 28.6 0 43.4
## 50 ## 51 ## 52 ## 53 ## 54 ## 55 ## 56 ## 57 ## 58 ## 60 ## 61 ## 62 ## 63 ## 64 ## 65 ## 66 ## 67 ## 68 ## 67 ## 68 ## 67 ## 68 ## 70 ## 71 ## 72 ## 73 ## 74	7 1 1 5 8 7 1 7 0 0 0 2 8 5 2 7 5 0 2 1 4 2 5 13 4	103 101 88 176 150 73 187 100 146 105 84 133 44 141 114 99 109 109 109 109 109 109 126 129	80 50 66 90 66 50 68 88 82 64 0 72 62 58 66 74 88 92 66 85 66 64 90 85	0 11 15 21 34 42 10 39 60 0 41 0 0 34 0 27 30 0 13 27 20 35 0 20	82 19.4 36 24.2 23 24.4 300 33.7 342 34.7 0 23.0 304 37.7 110 46.8 0 40.5 142 41.5 0 0.0 0 32.9 0 25.0 128 25.4 0 32.8 0 29.0 0 32.5 0 42.7 38 19.6 100 28.9 90 32.9 140 28.6 0 43.4 270 35.1
## 50 ## 51 ## 52 ## 53 ## 54 ## 55 ## 56 ## 57 ## 58 ## 60 ## 61 ## 62 ## 63 ## 64 ## 65 ## 66 ## 67 ## 68 ## 67 ## 70 ## 71 ## 72 ## 73 ## 74 ## 75 ## 76	7 1 1 5 8 7 1 7 0 0 0 2 8 5 2 7 5 0 2 1 4 2 5 13 4 1	103 101 88 176 150 73 187 100 146 105 84 133 44 141 114 99 109 109 95 146 100 139 126 129 79 0	80 50 66 90 68 88 82 64 0 72 62 58 66 74 88 92 66 85 66 64 90 86 75 48	0 11 15 21 34 42 10 39 60 0 41 0 0 34 0 27 30 0 13 27 20 35 0 20 30 20	82 19.4 36 24.2 23 24.4 300 33.7 342 34.7 0 23.0 304 37.7 110 46.8 0 40.5 142 41.5 0 0.0 0 32.9 0 25.0 128 25.4 0 32.8 0 29.0 0 32.5 0 42.7 38 19.6 100 28.9 90 32.9 140 28.6 0 43.4 270 35.1 0 32.0 0 24.7
## 50 ## 51 ## 52 ## 53 ## 55 ## 56 ## 57 ## 58 ## 60 ## 61 ## 62 ## 63 ## 64 ## 65 ## 66 ## 67 ## 68 ## 69 ## 70 ## 71 ## 72 ## 73 ## 74 ## 75 ## 76 ## 76	7 1 1 5 8 7 1 7 0 0 0 2 8 5 2 7 5 0 2 1 4 2 5 13 4 1 7	103 101 88 176 150 73 187 100 146 105 84 133 44 141 114 99 109 109 109 109 109 109 109 109 126 129 79 0 62	80 50 66 90 68 88 82 64 0 72 62 58 66 74 88 92 66 85 66 64 90 86 75 48 78	0 11 15 21 34 42 10 39 60 0 41 0 0 34 0 27 30 0 13 27 20 35 0 20 30 20 0	82 19.4 36 24.2 23 24.4 300 33.7 342 34.7 0 23.0 304 37.7 110 46.8 0 40.5 142 41.5 0 0.0 0 32.9 0 25.0 128 25.4 0 32.8 0 29.0 0 32.5 0 42.7 38 19.6 100 28.9 90 32.9 140 28.6 0 43.4 270 35.1 0 32.0 0 24.7 0 32.6
## 50 ## 51 ## 52 ## 53 ## 54 ## 55 ## 56 ## 57 ## 58 ## 60 ## 61 ## 62 ## 63 ## 64 ## 65 ## 66 ## 67 ## 68 ## 69 ## 70 ## 71 ## 72 ## 73 ## 74 ## 75 ## 76 ## 77 ## 78	7 1 1 5 8 7 1 7 0 0 0 2 8 5 2 7 5 0 2 1 4 2 5 13 4 1 7 5	103 101 88 176 150 73 187 100 146 105 84 133 44 141 114 99 109 109 109 109 109 109 109 109 109	80 50 66 90 68 88 82 64 0 72 62 58 66 74 88 92 66 85 66 64 90 86 75 48 78 72	0 11 15 21 34 42 10 39 60 0 41 0 0 34 0 27 30 0 13 27 20 35 0 20 30 20 0 33	82 19.4 36 24.2 23 24.4 300 33.7 342 34.7 0 23.0 304 37.7 110 46.8 0 40.5 142 41.5 0 0.0 0 32.9 0 25.0 128 25.4 0 32.8 0 29.0 0 32.5 0 42.7 38 19.6 100 28.9 90 32.9 140 28.6 0 43.4 270 35.1 0 32.0 0 24.7 0 32.6 0 37.7
## 50 ## 51 ## 52 ## 53 ## 54 ## 55 ## 56 ## 57 ## 58 ## 60 ## 61 ## 62 ## 63 ## 64 ## 65 ## 66 ## 67 ## 68 ## 67 ## 71 ## 72 ## 73 ## 74 ## 75 ## 76 ## 77	7 1 1 5 8 7 1 7 0 0 0 2 8 5 2 7 5 0 2 1 4 2 5 13 4 1 7	103 101 88 176 150 73 187 100 146 105 84 133 44 141 114 99 109 109 109 109 109 109 109 109 126 129 79 0 62	80 50 66 90 68 88 82 64 0 72 62 58 66 74 88 92 66 85 66 64 90 86 75 48 78	0 11 15 21 34 42 10 39 60 0 41 0 0 34 0 27 30 0 13 27 20 35 0 20 30 20 0	82 19.4 36 24.2 23 24.4 300 33.7 342 34.7 0 23.0 304 37.7 110 46.8 0 40.5 142 41.5 0 0.0 0 32.9 0 25.0 128 25.4 0 32.8 0 29.0 0 32.5 0 42.7 38 19.6 100 28.9 90 32.9 140 28.6 0 43.4 270 35.1 0 32.0 0 24.7 0 32.6

	δU	∠	$\perp \perp \angle$	00	22	U ∠5.U
	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 89	2	100	68	25	71 38.5
		15	136	70	32	110 37.1 0 26.5
	90	1	107	68	19	
##	91 92	1 4	80 123	55 80	0 15	0 19.1 176 32.0
##		7	81	78	40	48 46.7
	94	4	134	78	0	0 23.8
	95	2	142	82	18	64 24.7
	96	6	144	72	27	228 33.9
	97	2	92	62	28	0 31.6
##		1	71	48	18	76 20.4
	99	6	93	50	30	64 28.7
	100	1	122	90	51	220 49.7
	101	1	163	72	0	0 39.0
	102	1	151	60	0	0 26.1
	103	0	125	96	0	0 20.1
	103	1	81	72	18	40 26.6
	104	2	85	65	0	0 39.6
	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
	151	1	136	74	50	204 37.4
	152	4	114	65	0	0 21.9

## 153						
## 154	## 153	9	156	86	28	155 34.3
## 155						485 40.6
## 157	## 155	8	188		0	
## 157	## 156	7	152		44	
## 158		2	99		15	
## 159	## 158		109		21	
## 160						
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## 162	## 161	4	151	90	38	0 29.7
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## 170						
## 171 6 102 82 0 0 0 30.8 ## 172 6 134 70 23 130 35.4 ## 173 2 87 0 23 0 28.9 ## 174 1 79 60 42 48 43.5 ## 175 2 75 64 24 130 32.7 ## 177 6 8 179 72 42 130 32.7 ## 178 0 129 110 46 130 67.1 ## 180 5 130 82 0 0 39.1 ## 180 5 130 82 0 0 39.1 ## 181 6 87 80 0 0 32.2 ## 182 0 119 64 18 92 34.9 ## 183 1 0 74 20 23 27.7 ## 185 4 141 74 0 0 22.3 ## 186 7 194 68 28 0 35.9 ## 186 7 194 68 28 0 35.9 ## 188 1 1 128 98 41 58 30.4 ## 189 8 109 76 39 114 27.0 ## 189 8 109 76 39 114 27.0 ## 191 3 111 62 0 0 0 22.6 ## 191 3 111 62 0 0 0 22.4 ## 191 3 111 62 0 0 0 0 22.4 ## 191 3 111 62 0 0 0 0 22.4 ## 191 3 111 62 0 0 0 0 22.4 ## 191 3 111 62 0 0 0 0 22.4 ## 191 3 111 62 0 0 0 0 22.4 ## 194 11 135 0 0 0 0 22.4 ## 195 8 158 84 41 210 39.4 ## 196 5 138 85 55 20 0 24.4 ## 197 1 105 58 0 0 0 24.3 ## 199 4 109 64 44 99 34.8 ## 197 1 105 58 0 0 0 22.6 ## 199 4 109 64 44 99 34.8 ## 197 1 105 58 0 0 0 23.9 ## 199 4 109 64 44 99 34.8 ## 197 1 105 58 0 0 0 24.3 ## 197 1 105 58 0 0 0 24.3 ## 199 4 109 64 44 99 34.8 ## 197 1 105 58 0 0 0 24.3 ## 199 4 109 64 44 99 34.8 ## 197 1 105 58 0 0 0 24.3 ## 198 3 107 62 13 48 22.9 ## 200 4 148 60 27 318 30.9 ## 201 0 113 80 68 20 0 27.3 ## 202 1 138 82 0 0 0 37.5 ## 203 0 108 68 20 0 27.3 ## 204 2 99 70 16 42 42.0 ## 205 6 103 72 28 02.3 ## 207 8 196 76 29 280 37.5 ## 208 5 162 104 0 0 0 37.5 ## 208 5 162 104 0 0 0 37.5 ## 208 5 162 104 0 0 0 37.5 ## 209 1 1 28 2 32 190 37.5 ## 209 1 1 28 2 32 170 34.9 ## 201 0 147 85 54 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
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## 188						
## 189					36	
## 190			128	98	41	
## 191		8	109	76	39	114 27.9
## 191	## 190	5	139	80	35	160 31.6
## 192	## 191	3	111	62	0	
## 194		9	123	70	44	94 33.1
## 194	## 193	7	159	66	0	0 30.4
## 195		11			0	
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## 212 0 147 85 54 0 42.8 ## 213 7 179 95 31 0 34.2 ## 214 0 140 65 26 130 42.6 ## 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 74 22 0 29.0 ## 220 5 112 66 0 0 37.8 ## 221 0 177 60 29 478 34.6 ## 222 2 158 90 0 0 31.6 ## 223 7 119 0 0 0 0 25.2 ## 224 7 142 60 33 190 28.8		7		84	33	
## 213		2			22	
## 214 0 140 65 26 130 42.6 ## 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 74 22 0 29.0 ## 220 5 112 66 0 0 37.8 ## 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	## 212	0	147	85	54	0 42.8
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## 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 74 22 0 29.0 ## 220 5 112 66 0 0 37.8 ## 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		0				
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## 217 5 109 62 41 129 35.8 ## 218 6 125 68 30 120 30.0 ## 219 5 85 74 22 0 29.0 ## 220 5 112 66 0 0 37.8 ## 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						
## 218 6 125 68 30 120 30.0 ## 219 5 85 74 22 0 29.0 ## 220 5 112 66 0 0 37.8 ## 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						
## 219 5 85 74 22 0 29.0 ## 220 5 112 66 0 0 37.8 ## 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						
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## 224 7 142 60 33 190 28.8						
## ZZD 1 1UU 66 15 56 23.6						
	## 225	1	100	66	15	56 23.6

## 226	1	87	78	27	32 34.6
## 227	0	101	76	0	0 35.7
## 227	3	162	52		0 37.2
	4		70	38	744 36.7
## 229		197		39	
## 230	0	117	80	31	53 45.2
## 231	4	142	86	0	0 44.0
## 232	6	134	80	37	370 46.2
## 233	1	79	80	25	37 25.4
## 234	4	122	68	0	0 35.0
## 235	3	74	68	28	45 29.7
## 236	4	171	72	0	0 43.6
## 237	7	181	84	21	192 35.9
## 238	0	179	90	27	0 44.1
## 239	9	164	84	21	0 30.8
## 240	0	104	76	0	0 18.4
## 241	1	91	64	24	0 29.2
## 242	4	91	70	32	88 33.1
## 243	3	139	54	0	0 25.6
## 244	6	119	50	22	176 27.1
## 245	2	146	76	35	194 38.2
## 246	9	184	85	15	0 30.0
## 247	10	122	68	0	0 31.2 680 52.3
## 248	0	165	90	33	
## 249	9	124	70	33	402 35.4
## 250	1	111	86	19	0 30.1
## 251	9	106	52	0	0 31.2
## 252	2	129	84	0	0 28.0
## 253	2	90	80	14	55 24.4
## 254	0	86	68	32	0 35.8
## 255	12	92	62	7	258 27.6
## 256	1	113	64	35	0 33.6
## 257	3	111	56	39	0 30.1
## 258	2	114	68	22	0 28.7
## 259	1	193	50	16	375 25.9
## 260	11	155	76	28	150 33.3
## 261	3	191	68	15	130 30.9
## 262	3	141	0	0	0 30.0
## 263	4	95	70	32	0 32.1
## 264	3	142	80	15	0 32.4 0 32.0
## 265	4	123	62	0	
## 266	5	96	74	18	67 33.6
## 267	0	138	0	0	0 36.3
## 268 ## 269	2	128 102	64 52	42	0 40.0 0 25.1
## 270	2	146	0	0	0 27.5
## 270	10	101	86	37	0 45.6
## 271	2	101	62	32	56 25.2
## 273	3	122	78	0	0 23.0
## 274	1	71	78	50	45 33.2
## 275	13	106	70	0	0 34.2
## 276	2	100	70	52	57 40.5
## 277	7	106	60	24	0 26.5
## 278	0	104	64	23	116 27.8
## 279	5	114	74	0	0 24.9
## 280	2	108	62	10	278 25.3
## 281	0	146	70	0	0 37.9
## 282	10	129	76	28	122 35.9
## 283	7	133	88	15	155 32.4
## 284	7	161	86	0	0 30.4
## 285	2	108	80	0	0 27.0
## 286	7	136	74	26	135 26.0
## 287	5	155	84	44	545 38.7
## 288	1	119	86	39	220 45.6
## 289	4	96	56	17	49 20.8
## 290	5	108	72	43	75 36.1
## 291	0	78	88	29	40 36.9
## 292	0	107	62	30	74 36.6
## 293	2	128	78	37	182 43.3
## 294	1	128	48	45	194 40.5
## 295	0	161	50	0	0 21.9
## 296	6	151	62	31	120 35.5
## 297	2	146	70	38	360 28.0
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## 49				29	Z10 3	
## 29	99 14	100	78	25	184 3	6.6
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## 30)2 2	144	58	33	135 3	1.6
## 30)3 5	77	82	41	42 3	5.8
## 30)4 5	115	98	0	0 5	2.9
## 30)5 3	150	76	0	0 2	1.0
## 30		120	76	37	105 3	
## 30)7 10	161	68	23	132 2	5.5
## 30	0 8	137	68	14	148 2	4 8
## 30)9 0	128	68	19	180 3	0.5
## 31	.0 2	124	68	28	205 3	2.9
## 31		80	6.6	30	0 2	
			66			
## 31	.2 0	106	70	37	148 3	9.4
## 31	.3 2	155	7 4	17	96 2	6.6
## 31		113	50	10	85 2	
## 31	.5 7	109	80	31	0 3	5.9
## 31	.6 2	112	68	22	94 3	4.1
## 31	.7 3	99	80	11	64 1	9.3
## 31	.8 3	182	7 4	0	0 3	0.5
## 31		115	66	39	140 3	
## 32	20 6	194	78	0	0 2	3.5
## 32	21 4	129	60	12	231 2	7.5
## 32		112	74	30		1.6
## 32	23 0	124	70	20	0 2	7.4
## 32	24 13	152	90	33	29 2	6.8
## 32	25 2	112	75	32	0 3	5.7
## 32	26 1	157	7.2	21	168 2	5.6
## 32	27 1	122	64	32	156 3	5.1
## 32	28 10	179	70	0	0 3	5.1
## 32	29 2	102	86	36	120 4	5.5
## 33	30 6	105	70	32	68 3	n 8
## 33	81 8	118	72	19	0 2	3.1
## 33	32 2	87	58	16	52 3	2.7
## 33	33 1	180	0	0	0 4	3 3
## 33	34 12	106	80	0	0 2	3.6
## 33	35 1	95	60	18	58 2	3.9
## 33	36 0	165	76	43	255 4	7 9
## 33	37 0	117	0	0	0 3	3.8
## 33	38 5	115	76	0	0 3	1.2
## 33			78	34	171 3	
## 34		178	8 4	0	0 3	9.9
## 34	1 1	130	70	13	105 2	5.9
## 34		95	74	21	73 2	5 Q
## 34	13 1	0	68	35	0 3	2.0
## 34	14 5	122	86	0	0 3	4.7
## 34	15 8	95	72	0	0 3	6 8
## 34	16 8	126	88	36	108 3	8.5
## 34	17 1	139	46	19	83 2	8.7
## 34			0	0	0 2	
## 34	19 3	99	62	19	74 2	1.8
## 35	50 5	0	80	32	0 4	1.0
## 35			80	0	0 4	
## 35	52 4	137	84	0	0 3	1.2
## 35	53 3	61	82	28	0 3	4.4
## 35		90	62	12	43 2	
## 35			78	0	0 4	2.7
## 35	56 9	165	88	0	0 3	0.4
## 35		125	50	40	167 3	
## 35			0	30	0 3	
## 35	59 12	88	7 4	40	54 3	5.3
## 36	50 1	196	76	36	249 3	6.5
## 36			64	33	325 3	
## 36	52 5	158	70	0	0 2	
## 36	53 5	103	108	37	0 3	9.2
		146	78	0	0 3	
## 36	55 4	147	7 4	25	293 3	4.9
## 36		0.0	54	28	83 3	4.0
## 36	56 5	99				
## 36 ## 36		99			0 0	
## 36 ## 36 ## 36	57 6	124	72	0	0 2	7.6
## 36 ## 36	57 6	124			0 2	7.6
## 36 ## 36 ## 36	57 6 58 0	124 101	72 64	0 17	0 2	7.6
## 36 ## 36 ## 36 ## 36	57 6 58 0 59 3	124 101 81	72 64 86	0 17 16	0 2 66 2	7.6 1.0 7.5
## 36 ## 36 ## 36	57 6 58 0 59 3	124 101 81	72 64	0 17	0 2	7.6 1.0 7.5

## 371							
## 372	##	371	3	173	82	4.8	465 38 4
## 373							
## 375							
## 3776	##	374	2	105	58	40	94 34.9
## 3377	##	375	2	122	52	43	158 36.2
## 378	##	376	12	140	82	43	325 39.2
## 3890	##	377	0	98	82	15	84 25.2
## 380	##	378	1	87	60	37	75 37.2
## 381	##	379	4	156	75	0	0 48.3
## 382	##	380	0	93	100	39	72 43.4
## 383	##	381	1	107	72	30	
## 384			0	105	68	22	
## 385			1	109	60	8	
## 386							
## 380					70		
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## 403							
## 404				137	61	0	
## 405			5		84		
## 406				72	78	25	
## 407					64		
## 408	##	406	2	123	48	32	165 42.1
## 409	##	407	4	115	72	0	0 28.9
## 410	##	408	0	101	62	0	0 21.9
## 411 6 102 90 39 0 35.7 ## 412 1 112 72 30 176 34.4 ## 413 1 143 84 23 310 42.4 ## 415 0 138 60 35 167 34.6 ## 416 3 173 84 33 474 35.7 ## 417 1 97 68 21 0 27.2 ## 418 4 19 1 83 68 0 18.2 ## 420 3 129 64 29 115 26.4 ## 421 1 119 88 41 170 45.3 ## 422 2 94 68 18 76 26.0 ## 423 0 102 64 46 78 40.6 ## 424 2 115 64 22 0 30.8 ## 426 4 184 78 39 277 37.0 ## 427 0 94 0 0 0.0 ## 428 1 181 64 30 180 35.0 ## 429 0 135 94 46 145 40.6 ## 430 1 95 82 25 180 35.0 ## 431 2 99 0 0 0 22.2 ## 433 1 80 74 16 85 30.4 ## 434 2 139 75 0 0 25.6 ## 433 1 80 74 16 85 30.4 ## 434 2 139 75 0 0 25.6 ## 435 1 90 68 8 0 0 0 22.2 ## 436 0 141 0 0 0 0 42.4 ## 437 12 140 85 33 0 7.4 ## 438 5 147 75 0 0 29.9 ## 439 1 97 70 15 0 18.2 ## 439 1 97 70 15 0 18.2 ## 439 1 97 70 15 0 18.2 ## 440 6 107 88 0 0 0 36.8 ## 441 0 189 104 25 0 34.3 ## 442 1 0 189 104 25 0 34.3	##	409	8	197	74	0	0 25.9
## 412			1	172	68	49	579 42.4
## 412	##	411	6	102	90	39	0 35.7
## 413						30	
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## 429 0 135 94 46 145 40.6 ## 430 1 95 82 25 180 35.0 ## 431 2 99 0 0 0 0 22.2 ## 432 3 89 74 16 85 30.4 ## 433 1 80 74 11 60 30.0 ## 434 2 139 75 0 0 25.6 ## 435 1 90 68 8 024.5 ## 436 0 141 0 0 0 42.4 ## 437 12 140 85 33 037.4 ## 438 5 147 75 0 0 29.9 ## 439 1 97 70 15 0 18.2 ## 440 6 107 88 0 0 36.8 ## 441 0 189 104 25 0 34.3 ## 442 2 83 66 23 50 32.2							
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## 432							
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## 442							
	##	441	0	189	104	25	0 34.3
## 443	##	442	2	83	66	23	
	##	443	4	117	64	27	120 33.2

	0	100	7.0	0	0 20 5
## 444	8	108	70	0	0 30.5
## 445	4	117	62	12	0 29.7
## 446	0	180	78	63	14 59.4
## 447	1	100	72	12	70 25.3
## 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	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
## 467	0	74	52	10	36 27.8
## 468	0	97	64	36	100 36.8
## 469	8	120	0	0	0 30.0
## 470	6	154	78	41	140 46.1
## 471	1	144	82	40	0 41.3
## 472	0	137	70	38	0 33.2
## 473	0	119	66	27	0 38.8
## 474	7	136	90	0	0 29.9
## 475	4	114	64	0	0 28.9
## 476	0	137	84	27	0 27.3
## 477	2	105	80	45	191 33.7
## 478	7	114	76	17	110 23.8
## 479	8	126	74	38	75 25.9
## 480	4	132	86	31	0 28.0
## 481	3	158	70	30	328 35.5
## 482	0	123	88	37	0 35.2
## 483	4	85	58	22	49 27.8
## 484	0	84	82	31	125 38.2
## 485	0	145	0	0	0 44.2
## 486	0	135	68	42	250 42.3
## 487	1	139	62	41	480 40.7
## 488	0	173	78	32	265 46.5
## 489	4	99	72	17	0 25.6
## 490	8	194	80	0	0 26.1
## 491	2	83	65	28	66 36.8
## 492	2	89	90	30	0 33.5
## 493	4	99	68	38	0 32.8
## 494	4	125	70	18	122 28.9
## 495					
	3	8.0	Ω	Ω	0 0 0
	3	80	0	0	0 0.0
## 496	6	166	74	0	0 26.6
## 496 ## 497	6 5	166 110	74 68	0	0 26.6 0 26.0
## 496 ## 497 ## 498	6 5 2	166 110 81	74 68 72	0 0 15	0 26.6 0 26.0 76 30.1
## 496 ## 497 ## 498 ## 499	6 5 2 7	166 110 81 195	74 68 72 70	0 0 15 33	0 26.6 0 26.0 76 30.1 145 25.1
## 496 ## 497 ## 498	6 5 2	166 110 81	74 68 72	0 0 15	0 26.6 0 26.0 76 30.1 145 25.1 193 29.3
## 496 ## 497 ## 498 ## 499	6 5 2 7	166 110 81 195	74 68 72 70	0 0 15 33	0 26.6 0 26.0 76 30.1 145 25.1
## 496 ## 497 ## 498 ## 499 ## 500	6 5 2 7 6	166 110 81 195 154	74 68 72 70 74	0 0 15 33 32	0 26.6 0 26.0 76 30.1 145 25.1 193 29.3
## 496 ## 497 ## 498 ## 499 ## 500	6 5 2 7 6 2	166 110 81 195 154 117	74 68 72 70 74 90	0 0 15 33 32 19	0 26.6 0 26.0 76 30.1 145 25.1 193 29.3 71 25.2
## 496 ## 497 ## 498 ## 499 ## 500 ## 501	6 5 2 7 6 2 3	166 110 81 195 154 117 84	74 68 72 70 74 90 72	0 0 15 33 32 19	0 26.6 0 26.0 76 30.1 145 25.1 193 29.3 71 25.2 0 37.2
## 496 ## 497 ## 498 ## 500 ## 501 ## 502 ## 503	6 5 2 7 6 2 3 6	166 110 81 195 154 117 84 0	74 68 72 70 74 90 72 68 64	0 0 15 33 32 19 32 41	0 26.6 0 26.0 76 30.1 145 25.1 193 29.3 71 25.2 0 37.2 0 39.0 79 33.3
## 496 ## 497 ## 498 ## 500 ## 501 ## 502 ## 503 ## 504 ## 505	6 5 2 7 6 2 3 6 7 3	166 110 81 195 154 117 84 0 94	74 68 72 70 74 90 72 68 64 78	0 0 15 33 32 19 32 41 25 39	0 26.6 0 26.0 76 30.1 145 25.1 193 29.3 71 25.2 0 37.2 0 39.0 79 33.3 0 37.3
## 496 ## 497 ## 498 ## 500 ## 501 ## 502 ## 503 ## 504 ## 505	6 5 2 7 6 2 3 6 7 3	166 110 81 195 154 117 84 0 94 96 75	74 68 72 70 74 90 72 68 64 78	0 0 15 33 32 19 32 41 25 39 0	0 26.6 0 26.0 76 30.1 145 25.1 193 29.3 71 25.2 0 37.2 0 39.0 79 33.3 0 37.3 0 33.3
## 496 ## 497 ## 498 ## 500 ## 501 ## 502 ## 503 ## 504 ## 505 ## 506 ## 507	6 5 2 7 6 2 3 6 7 3 10	166 110 81 195 154 117 84 0 94 96 75	74 68 72 70 74 90 72 68 64 78 82	0 0 15 33 32 19 32 41 25 39 0	0 26.6 0 26.0 76 30.1 145 25.1 193 29.3 71 25.2 0 37.2 0 39.0 79 33.3 0 37.3 0 33.3 90 36.5
## 496 ## 497 ## 498 ## 500 ## 501 ## 502 ## 503 ## 504 ## 505 ## 506 ## 507	6 5 2 7 6 2 3 6 7 3 10 0	166 110 81 195 154 117 84 0 94 96 75 180 130	74 68 72 70 74 90 72 68 64 78 82 90 60	0 0 15 33 32 19 32 41 25 39 0 26 23	0 26.6 0 26.0 76 30.1 145 25.1 193 29.3 71 25.2 0 37.2 0 39.0 79 33.3 0 37.3 0 33.3 90 36.5 170 28.6
## 496 ## 497 ## 498 ## 500 ## 501 ## 502 ## 503 ## 504 ## 505 ## 506 ## 507 ## 508	6 5 2 7 6 2 3 6 7 3 10 0	166 110 81 195 154 117 84 0 94 96 75 180 130 84	74 68 72 70 74 90 72 68 64 78 82 90 60 50	0 0 15 33 32 19 32 41 25 39 0 26 23 23	0 26.6 0 26.0 76 30.1 145 25.1 193 29.3 71 25.2 0 37.2 0 39.0 79 33.3 0 37.3 0 33.3 90 36.5 170 28.6 76 30.4
## 496 ## 497 ## 498 ## 500 ## 501 ## 502 ## 503 ## 504 ## 505 ## 506 ## 507 ## 508 ## 509	6 5 2 7 6 2 3 6 7 3 10 0 1 2 8	166 110 81 195 154 117 84 0 94 96 75 180 130 84 120	74 68 72 70 74 90 72 68 64 78 82 90 60 50	0 0 15 33 32 19 32 41 25 39 0 26 23 23	0 26.6 0 26.0 76 30.1 145 25.1 193 29.3 71 25.2 0 37.2 0 39.0 79 33.3 0 37.3 0 33.3 90 36.5 170 28.6 76 30.4 0 25.0
## 496 ## 497 ## 498 ## 500 ## 501 ## 502 ## 503 ## 504 ## 505 ## 506 ## 507 ## 508	6 5 2 7 6 2 3 6 7 3 10 0	166 110 81 195 154 117 84 0 94 96 75 180 130 84 120 84	74 68 72 70 74 90 72 68 64 78 82 90 60 50 78	0 0 15 33 32 19 32 41 25 39 0 26 23 23	0 26.6 0 26.0 76 30.1 145 25.1 193 29.3 71 25.2 0 37.2 0 39.0 79 33.3 0 37.3 0 33.3 90 36.5 170 28.6 76 30.4 0 25.0 0 29.7
## 496 ## 497 ## 498 ## 500 ## 501 ## 502 ## 503 ## 504 ## 505 ## 506 ## 507 ## 508 ## 509	6 5 2 7 6 2 3 6 7 3 10 0 1 2 8	166 110 81 195 154 117 84 0 94 96 75 180 130 84 120	74 68 72 70 74 90 72 68 64 78 82 90 60 50	0 0 15 33 32 19 32 41 25 39 0 26 23 23	0 26.6 0 26.0 76 30.1 145 25.1 193 29.3 71 25.2 0 37.2 0 39.0 79 33.3 0 37.3 0 33.3 90 36.5 170 28.6 76 30.4 0 25.0
## 496 ## 497 ## 498 ## 500 ## 501 ## 502 ## 503 ## 504 ## 505 ## 506 ## 507 ## 508 ## 509 ## 510	6 5 2 7 6 2 3 6 7 3 10 0 1 2 8	166 110 81 195 154 117 84 0 94 96 75 180 130 84 120 84	74 68 72 70 74 90 72 68 64 78 82 90 60 50 78	0 0 15 33 32 19 32 41 25 39 0 26 23 23 0 31	0 26.6 0 26.0 76 30.1 145 25.1 193 29.3 71 25.2 0 37.2 0 39.0 79 33.3 0 37.3 0 33.3 90 36.5 170 28.6 76 30.4 0 25.0 0 29.7
## 496 ## 497 ## 498 ## 500 ## 501 ## 502 ## 503 ## 504 ## 505 ## 506 ## 507 ## 508 ## 509 ## 510 ## 511	6 5 2 7 6 2 3 6 7 3 10 0 1 2 8 12	166 110 81 195 154 117 84 0 94 96 75 180 130 84 120 84 139	74 68 72 70 74 90 72 68 64 78 82 90 60 50 78 72	0 0 15 33 32 19 32 41 25 39 0 26 23 23 0 31	0 26.6 0 26.0 76 30.1 145 25.1 193 29.3 71 25.2 0 37.2 0 39.0 79 33.3 0 37.3 0 33.3 90 36.5 170 28.6 76 30.4 0 25.0 0 29.7 210 22.1
## 496 ## 497 ## 498 ## 500 ## 501 ## 502 ## 503 ## 504 ## 505 ## 506 ## 507 ## 508 ## 509 ## 510 ## 511 ## 512	6 5 2 7 6 2 3 6 7 3 10 0 1 2 8 12 0 9	166 110 81 195 154 117 84 0 94 96 75 180 130 84 120 84 139 91	74 68 72 70 74 90 72 68 64 78 82 90 60 50 78 72 62	0 0 15 33 32 19 32 41 25 39 0 26 23 23 0 31 17	0 26.6 0 26.0 76 30.1 145 25.1 193 29.3 71 25.2 0 37.2 0 39.0 79 33.3 0 37.3 0 33.3 90 36.5 170 28.6 76 30.4 0 25.0 0 29.7 210 22.1 0 24.2
## 496 ## 497 ## 498 ## 500 ## 501 ## 502 ## 503 ## 504 ## 505 ## 506 ## 507 ## 508 ## 509 ## 510 ## 511 ## 512 ## 513 ## 514	6 5 2 7 6 2 3 6 7 3 10 0 1 2 8 12 0 9 2	166 110 81 195 154 117 84 0 94 96 75 180 130 84 120 84 139 91 91	74 68 72 70 74 90 72 68 64 78 82 90 60 50 78 72 62 68 62	0 0 15 33 32 19 32 41 25 39 0 26 23 23 0 31 17 0	0 26.6 0 26.0 76 30.1 145 25.1 193 29.3 71 25.2 0 37.2 0 39.0 79 33.3 0 37.3 0 33.3 90 36.5 170 28.6 76 30.4 0 25.0 0 29.7 210 22.1 0 24.2 0 27.3

##	OIC	3	103	/ ∪	ΤΩ	1U3 31.0	
	517	9	145	88	34	165 30.3	
##	518	7	125	86	0	0 37.6	
	519	13	76	60	0	0 32.8	
##	520	6	129	90	7	326 19.6	
##	521	2	68	70	32	66 25.0	
##	522	3	124	80	33	130 33.2	
##	523	6	114	0	0	0 0.0	
	524	9	130	70	0	0 34.2	
	525	3	125	58	0	0 31.6	
##	526	3	87	60	18	0 21.8	
##	527	1	97	64	19	82 18.2	
##	528	3	116	74	15	105 26.3	
##	529	0	117	66	31	188 30.8	
##	530	0	111	65	0	0 24.6	
		2			18		
	531		122	60		106 29.8	
##	532	0	107	76	0	0 45.3	
##	533	1	86	66	52	65 41.3	
##	534	6	91	0	0	0 29.8	
##	535	1	77	56	30	56 33.3	
##	536	4	132	0	0	0 32.9	
##	537	0	105	90	0	0 29.6	
##	538	0	57	60	0	0 21.7	
	539	0	127	80	37	210 36.3	
	540	3	129	92	49	155 36.4	
##	541	8	100	74	40	215 39.4	
##	542	3	128	72	25	190 32.4	
##	543	10	90	85	32	0 34.9	
##	544	4	84	90	23	56 39.5	
	545	1	88	78	29	76 32.0	
	546	8	186	90	35	225 34.5	
##	547	5	187	76	27	207 43.6	
##	548	4	131	68	21	166 33.1	
##	549	1	164	82	43	67 32.8	
##	550	4	189	110	31	0 28.5	
##	551	1	116	70	28	0 27.4	
##	552	3	84	68	30	106 31.9	
##	553	6	114	88	0	0 27.8	
	554	1	88	62	24	44 29.9	
	555	1	84	64	23	115 36.9	
##	556	7	124	70	33	215 25.5	
##	557	1	97	70	40	0 38.1	
##	558	8	110	76	0	0 27.8	
##	559	11	103	68	40	0 46.2	
	560	11	85	74	0	0 30.1	
	561	6	125	76	0	0 33.8	
	562	0	198	66	32		
	563	1	87	68	34	77 37.6	
##	564	6	99	60	19	54 26.9	
##	565	0	91	80	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		
		4		72			
	569		154		29		
	570	0	121	66	30	165 34.3	
	571	3	78	70	0	0 32.5	
##	572	2	130	96	0	0 22.6	
##	573	3	111	58	31	44 29.5	
##	574	2	98	60	17		
	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 27.0	
##	580	2	197	70	99	0 34.7	
	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		
##	586	1	93	56	11	0 22.5	
##	587	8	143	66	0	0 34.9	
	588	6	103	66	0	0 24.3	

## 589	156 33.3 0 21.1 0 46.8
## 590	0 21.1 0 46.8
## 592	
## 593	
## 594	140 39.4
## 595 6 123 72 45 ## 596 0 188 82 14 ## 597 0 67 76 0 ## 598 1 89 24 19 ## 599 1 173 74 0 ## 600 1 109 38 18 ## 601 1 108 88 19 ## 602 6 96 0 0 0 ## 603 1 124 74 36 ## 605 4 183 0 0 0 ## 606 1 124 60 32 ## 606 1 124 60 32 ## 608 1 92 62 25 ## 609 0 152 82 39 ## 610 1 111 62 13 ## 611 3 106 54 21 ## 611 3 106 54 21 ## 612 3 174 58 22 ## 613 7 168 88 42 ## 615 11 138 74 26 ## 615 11 138 74 26 ## 616 3 106 72 0 ## 617 6 117 96 0 ## 618 2 68 62 13 ## 619 9 112 82 24 ## 622 2 92 76 20 ## 623 6 183 94 0 ## 625 2 108 64 0 ## 626 4 90 88 47 ## 627 0 125 68 00 ## 628 0 132 78 00 ## 629 5 128 80 0 ## 633 2 111 60 0 ## 633 2 111 60 0 ## 634 1 125 68 00 ## 635 10 92 62 0 ## 636 13 104 72 0 ## 637 5 104 70 27 ## 628 0 132 78 00 ## 638 0 132 78 00 ## 639 7 97 76 32 ## 630 1 128 82 17 ## 631 7 114 64 0 ## 633 2 94 76 18 ## 636 13 104 72 0 ## 637 5 104 74 0 ## 638 2 94 76 18 ## 639 7 97 76 32 ## 641 0 102 86 17 ## 636 13 100 74 12 ## 637 5 104 74 0 ## 638 2 94 76 18 ## 639 7 97 76 32 ## 641 0 102 86 17 ## 643 1 128 82 17 ## 643 1 128 82 17 ## 644 4 90 0 0 ## 645 3 103 72 30 ## 645 13 100 74 12 ## 646 1 100 74 12 ## 647 1 167 74 35 ## 648 0 179 50 36 ## 649 11 136 84 35 ## 649 11 136 84 35 ## 649 11 136 84 35 ## 649 11 136 84 35 ## 649 11 136 84 35 ## 649 11 136 84 35 ## 649 11 136 84 35 ## 649 11 136 84 35 ## 649 11 136 84 35 ## 649 11 136 84 35 ## 649 11 136 84 35 ## 649 11 136 84 35	0 34.4
## 595 6 123 72 45 ## 596 0 188 82 14 ## 597 0 67 76 0 ## 598 1 89 24 19 ## 599 1 173 74 0 ## 600 1 109 38 18 ## 601 1 108 88 19 ## 602 6 96 0 0 0 ## 603 1 124 74 36 ## 605 4 183 0 0 0 ## 606 1 124 60 32 ## 606 1 181 78 42 ## 608 1 92 62 25 ## 609 0 152 82 39 ## 610 1 111 62 13 ## 611 3 106 54 21 ## 613 7 168 88 42 ## 613 7 168 88 42 ## 615 11 138 74 26 ## 616 3 106 72 0 ## 617 6 117 96 0 ## 618 2 68 62 13 ## 619 9 112 82 24 ## 622 2 92 76 20 ## 623 6 183 94 0 ## 625 2 108 64 0 ## 623 6 183 94 0 ## 625 2 108 64 0 ## 626 4 90 88 47 ## 627 0 125 68 0 ## 628 0 132 78 00 ## 629 5 128 80 0 ## 633 2 111 60 0 ## 633 1 122 82 24 ## 624 0 94 70 27 ## 625 10 92 62 0 ## 633 1 125 68 0 ## 634 1 128 82 17 ## 635 10 92 62 0 ## 636 13 104 72 0 ## 637 5 104 74 70 27 ## 628 0 132 78 00 ## 638 1 128 82 17 ## 639 7 97 76 32 ## 637 5 104 74 0 ## 638 2 94 76 18 ## 639 7 97 76 32 ## 641 0 102 86 17 ## 636 13 104 72 0 ## 637 5 104 74 0 ## 638 2 94 76 18 ## 639 7 97 76 32 ## 644 4 90 0 0 ## 645 13 100 74 12 ## 648 0 179 50 36 ## 649 11 100 74 12 ## 648 0 179 50 36 ## 649 11 167 74 35 ## 646 147 80 0 ## 648 0 179 50 36 ## 649 11 167 74 35 ## 648 0 179 50 36 ## 649 11 136 84 35 ## 649 11 136 84 35 ## 649 11 136 84 35 ## 649 11 136 84 35 ## 649 11 136 84 35 ## 649 11 136 84 35 ## 649 11 136 84 35 ## 649 11 136 84 35 ## 649 11 136 84 35 ## 649 11 136 84 35 ## 649 11 136 84 35 ## 649 11 136 84 35	115 28.5
## 597	230 33.6
## 597	185 32.0
## 598	0 45.3
## 599	25 27.8
## 600	0 36.8
## 601	120 23.1
## 602	0 27.1
## 603	0 23.7
## 604	0 27.8
## 605	126 35.2
## 606	0 28.4
## 607	
## 608	0 35.8
## 609	293 40.0
## 610	41 19.5
## 611	272 41.5
## 612	182 24.0
## 613	158 30.9
## 614	194 32.9
## 615	321 38.2
## 616	0 32.5
## 617	144 36.1
## 617	0 25.8
## 618	0 28.7
## 619	15 20.1
## 620	0 28.2
## 621	0 32.4
## 622	160 38.4
## 623	0 24.2
## 624	0 40.8
## 625	
## 626	115 43.5
## 627	0 30.8
## 628	54 37.7
## 629	0 24.7
## 630	0 32.4
## 631	0 34.6
## 632	0 24.7
## 633	0 27.4
## 634	90 34.5
## 635	0 26.2
## 635	183 27.5
## 636	0 25.9
## 637	0 31.2
## 638	0 28.8
## 639 7 97 76 32 ## 640 1 100 74 12 ## 641 0 102 86 17 ## 642 4 128 70 0 ## 643 6 147 80 0 ## 644 4 90 0 0 ## 645 3 103 72 30 ## 646 2 157 74 35 ## 647 1 167 74 17 ## 648 0 179 50 36 ## 649 11 136 84 35 ## 650 0 107 60 25 ## 651 1 91 54	66 31.6
## 640	91 40.9
## 641 0 102 86 17 ## 642 4 128 70 0 ## 643 6 147 80 0 ## 644 4 90 0 0 ## 645 3 103 72 30 ## 646 2 157 74 35 ## 647 1 167 74 17 ## 648 0 179 50 36 ## 649 11 136 84 35 ## 650 0 107 60 25 ## 651 1 91 54	46 19.5
## 642	
## 643 6 147 80 0 ## 644 4 90 0 0 ## 645 3 103 72 30 ## 646 2 157 74 35 ## 647 1 167 74 17 ## 648 0 179 50 36 ## 649 11 136 84 35 ## 650 0 107 60 25 ## 651 1 91 54	105 29.3
## 644 4 90 0 0 0 0 ## 645 3 103 72 30 ## 646 2 157 74 35 ## 647 1 167 74 17 ## 648 0 179 50 36 ## 649 11 136 84 35 ## 650 0 107 60 25 ## 651 1 91 54 25	0 34.3
## 645 3 103 72 30 ## 646 2 157 74 35 ## 647 1 167 74 17 ## 648 0 179 50 36 ## 649 11 136 84 35 ## 650 0 107 60 25 ## 651 1 91 54	0 29.5
## 646 2 157 74 35 ## 647 1 167 74 17 ## 648 0 179 50 36 ## 649 11 136 84 35 ## 650 0 107 60 25 ## 651 1 91 54 25	0 28.0
## 647	152 27.6
## 648 0 179 50 36 ## 649 11 136 84 35 ## 650 0 107 60 25 ## 651 1 91 54 25	440 39.4
## 649 11 136 84 35 ## 650 0 107 60 25 ## 651 1 91 54 25	144 23.4
## 649 11 136 84 35 ## 650 0 107 60 25 ## 651 1 91 54 25	159 37.8
## 650 0 107 60 25 ## 651 1 91 54 25	130 28.3
## 651 1 91 54 25	0 26.4
	100 25.2
	106 23.2
## 653 5 123 74 40	77 34.1
## 654 2 120 54 0	0 26.8
## 655 1 106 70 28	135 34.2
## 656	540 38.7
## 657 2 101 58 35	90 21.8
## 658 1 120 80 48	200 38.9
## 659 11 127 106 0	0 39.0
## 660 3 80 82 31	70 34.2
## 661 10 162 84 0	0 27.7

"" 660	4	1.00	7.6	4.2	0 40 0
## 662	1	199	76	43	0 42.9
## 663	8	167	106	46	231 37.6
## 664	9	145	80	46	130 37.9
## 665	6	115	60	39	0 33.7
## 666	1	112	80	45	132 34.8
## 667	4	145	82	18	0 32.5
## 668	10	111	70	27	0 27.5
## 669	6	98	58	33	190 34.0
## 670	9	154	78	30	100 30.9
## 671	6	165	68	26	168 33.6
## 672	1	99	58	10	0 25.4
## 673	10	68	106	23	49 35.5
## 674	3	123	100	35	240 57.3
## 675	8	91	82	0	0 35.6
## 676	6	195	70	0	0 30.9
## 677	9	156	86	0	0 24.8
## 678	0	93	60	0	0 35.3
## 679	3	121	52	0	0 36.0
## 680	2	101	58	17	265 24.2
## 681	2	56	56	28	45 24.2
## 682	0	162	76	36	0 49.6
## 683	0	95	64	39	105 44.6
## 684	4	125	80	0	0 32.3
## 685	5	136	82	0	0 0.0
	2				
## 686		129	74	26	205 33.2
## 687	3	130	64	0	0 23.1
## 688	1	107	50	19	0 28.3
## 689	1	140	74	26	180 24.1
## 690	1	144	82	46	180 46.1
## 691	8	107	80	0	0 24.6
## 692	13	158	114	0	0 42.3
## 693	2	121	70	32	95 39.1
## 694	7	129	68	49	125 38.5
## 695	2	90	60	0	0 23.5
## 696	7	142	90	24	480 30.4
## 697	3	169	7.4	19	125 29.9
## 698	0	99	0	0	0 25.0
## 699	4	127	88	11	155 34.5
## 700			70		0 44.5
	4	118		0	
## 701	2	122	76	27	200 35.9
## 702	6	125	78	31	0 27.6
## 703	1	168	88	29	0 35.0
## 704	2	129	0	0	0 38.5
## 705	4	110	76		
## 706				20	100 28.4
## 707	6	80	80	20 36	0 39.8
1	6 10	80 115			
## 708			80	36	0 39.8
	10	115	80	36 0	0 39.8 0 0.0
## 708	10 2	115 127	80 0 46	36 0 21	0 39.8 0 0.0 335 34.4
## 708 ## 709	10 2 9	115 127 164	80 0 46 78	36 0 21 0	0 39.8 0 0.0 335 34.4 0 32.8
## 708 ## 709 ## 710	10 2 9 2	115 127 164 93	80 0 46 78 64	36 0 21 0 32	0 39.8 0 0.0 335 34.4 0 32.8 160 38.0
## 708 ## 709 ## 710 ## 711	10 2 9 2 3	115 127 164 93 158	80 0 46 78 64	36 0 21 0 32	0 39.8 0 0.0 335 34.4 0 32.8 160 38.0 387 31.2
## 708 ## 709 ## 710 ## 711 ## 712	10 2 9 2 3 5	115 127 164 93 158 126	80 0 46 78 64 64	36 0 21 0 32 13 27	0 39.8 0 0.0 335 34.4 0 32.8 160 38.0 387 31.2 22 29.6
## 708 ## 709 ## 710 ## 711 ## 712 ## 713 ## 714	10 2 9 2 3 5	115 127 164 93 158 126 129	80 0 46 78 64 64 78	36 0 21 0 32 13 27 36	0 39.8 0 0.0 335 34.4 0 32.8 160 38.0 387 31.2 22 29.6 0 41.2 291 26.4
## 708 ## 709 ## 710 ## 711 ## 712 ## 713 ## 714 ## 715	10 2 9 2 3 5 10	115 127 164 93 158 126 129 134 102	80 0 46 78 64 64 78 62 58	36 0 21 0 32 13 27 36 20	0 39.8 0 0.0 335 34.4 0 32.8 160 38.0 387 31.2 22 29.6 0 41.2 291 26.4 0 29.5
## 708 ## 709 ## 710 ## 711 ## 712 ## 713 ## 714 ## 715 ## 716	10 2 9 2 3 5 10 0 3 7	115 127 164 93 158 126 129 134 102 187	80 0 46 78 64 64 78 62 58 74	36 0 21 0 32 13 27 36 20 0	0 39.8 0 0.0 335 34.4 0 32.8 160 38.0 387 31.2 22 29.6 0 41.2 291 26.4 0 29.5 392 33.9
## 708 ## 709 ## 710 ## 711 ## 712 ## 713 ## 714 ## 715 ## 716	10 2 9 2 3 5 10 0 3 7	115 127 164 93 158 126 129 134 102 187 173	80 0 46 78 64 64 78 62 58 74 50	36 0 21 0 32 13 27 36 20 0 33 39	0 39.8 0 0.0 335 34.4 0 32.8 160 38.0 387 31.2 22 29.6 0 41.2 291 26.4 0 29.5 392 33.9 185 33.8
## 708 ## 709 ## 710 ## 711 ## 712 ## 713 ## 714 ## 715 ## 716 ## 717	10 2 9 2 3 5 10 0 3 7 3	115 127 164 93 158 126 129 134 102 187 173	80 0 46 78 64 64 78 62 58 74 50 78	36 0 21 0 32 13 27 36 20 0 33 39 18	0 39.8 0 0.0 335 34.4 0 32.8 160 38.0 387 31.2 22 29.6 0 41.2 291 26.4 0 29.5 392 33.9 185 33.8 0 23.1
## 708 ## 709 ## 710 ## 711 ## 712 ## 713 ## 714 ## 715 ## 716 ## 717 ## 718	10 2 9 2 3 5 10 0 3 7 3 10	115 127 164 93 158 126 129 134 102 187 173 94	80 0 46 78 64 64 78 62 58 74 50 78 72	36 0 21 0 32 13 27 36 20 0 33 39 18	0 39.8 0 0.0 335 34.4 0 32.8 160 38.0 387 31.2 22 29.6 0 41.2 291 26.4 0 29.5 392 33.9 185 33.8 0 23.1 178 35.5
## 708 ## 709 ## 710 ## 711 ## 712 ## 713 ## 714 ## 715 ## 716 ## 717 ## 718 ## 719	10 2 9 2 3 5 10 0 3 7 3 10 1	115 127 164 93 158 126 129 134 102 187 173 94 108 97	80 0 46 78 64 64 78 62 58 74 50 78 72 60 76	36 0 21 0 32 13 27 36 20 0 33 39 18 46 27	0 39.8 0 0.0 335 34.4 0 32.8 160 38.0 387 31.2 22 29.6 0 41.2 291 26.4 0 29.5 392 33.9 185 33.8 0 23.1 178 35.5 0 35.6
## 708 ## 709 ## 710 ## 711 ## 712 ## 713 ## 714 ## 715 ## 716 ## 717 ## 718 ## 719 ## 720 ## 721	10 2 9 2 3 5 10 0 3 7 3 10 1 5	115 127 164 93 158 126 129 134 102 187 173 94 108 97 83	80 0 46 78 64 64 78 62 58 74 50 78 72 60 76 86	36 0 21 0 32 13 27 36 20 0 33 39 18 46 27 19	0 39.8 0 0.0 335 34.4 0 32.8 160 38.0 387 31.2 22 29.6 0 41.2 291 26.4 0 29.5 392 33.9 185 33.8 0 23.1 178 35.5 0 35.6 0 29.3
## 708 ## 709 ## 710 ## 711 ## 712 ## 713 ## 714 ## 715 ## 716 ## 717 ## 718 ## 719 ## 720 ## 721	10 2 9 2 3 5 10 0 3 7 3 10 1 5 4	115 127 164 93 158 126 129 134 102 187 173 94 108 97 83 114	80 0 46 78 64 64 78 62 58 74 50 78 72 60 76 86 66	36 0 21 0 32 13 27 36 20 0 33 39 18 46 27 19	0 39.8 0 0.0 335 34.4 0 32.8 160 38.0 387 31.2 22 29.6 0 41.2 291 26.4 0 29.5 392 33.9 185 33.8 0 23.1 178 35.5 0 35.6 0 29.3 200 38.1
## 708 ## 709 ## 710 ## 711 ## 712 ## 713 ## 714 ## 715 ## 716 ## 717 ## 718 ## 719 ## 720 ## 721 ## 722	10 2 9 2 3 5 10 0 3 7 3 10 1 5 4 1	115 127 164 93 158 126 129 134 102 187 173 94 108 97 83 114	80 0 46 78 64 64 78 62 58 74 50 78 72 60 76 86 66 66	36 0 21 0 32 13 27 36 20 0 33 39 18 46 27 19 36 29	0 39.8 0 0.0 335 34.4 0 32.8 160 38.0 387 31.2 22 29.6 0 41.2 291 26.4 0 29.5 392 33.9 185 33.8 0 23.1 178 35.5 0 35.6 0 29.3 200 38.1 127 29.3
## 708 ## 709 ## 710 ## 711 ## 712 ## 713 ## 714 ## 715 ## 716 ## 717 ## 718 ## 720 ## 721 ## 722 ## 723	10 2 9 2 3 5 10 0 3 7 3 10 1 5 4 1	115 127 164 93 158 126 129 134 102 187 173 94 108 97 83 114 149 117	80 0 46 78 64 64 78 62 58 74 50 78 72 60 76 86 66 68 88	36 0 21 0 32 13 27 36 20 0 33 39 18 46 27 19 36 29 30	0 39.8 0 0.0 335 34.4 0 32.8 160 38.0 387 31.2 22 29.6 0 41.2 291 26.4 0 29.5 392 33.9 185 33.8 0 23.1 178 35.5 0 35.6 0 29.3 200 38.1 127 29.3 105 39.1
## 708 ## 709 ## 710 ## 711 ## 712 ## 713 ## 714 ## 715 ## 716 ## 717 ## 718 ## 719 ## 720 ## 721 ## 722	10 2 9 2 3 5 10 0 3 7 3 10 1 5 4 1	115 127 164 93 158 126 129 134 102 187 173 94 108 97 83 114	80 0 46 78 64 64 78 62 58 74 50 78 72 60 76 86 66 66	36 0 21 0 32 13 27 36 20 0 33 39 18 46 27 19 36 29	0 39.8 0 0.0 335 34.4 0 32.8 160 38.0 387 31.2 22 29.6 0 41.2 291 26.4 0 29.5 392 33.9 185 33.8 0 23.1 178 35.5 0 35.6 0 29.3 200 38.1 127 29.3
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	##			1.390	56	1
	##			0.271	26	0
	##			0.696	37	0
	##			0.235	48	0
	##			0.721	54	1
	##			0.294	40	0
	##			1.893	25	1
#	##	47	7	0.564	29	0
#	##	48	8	0.586	22	0
1 #	##	49	9	0.344	31	1
	##			0.305	24	0
	##			0.491	22	0
	##			0.526	26	0
	##			0.342	30	0
	##			0.467	58	1
#	##	55	5	0.718	42	0
	##			0.248	21	0
	##			0.254	41	1
	##			0.962	31	0
	##			1.781	44	0
	##			0.173	22	0
#	##	61	1	0.304	21	0
#	##	62	2	0.270	39	1
	##			0.587	36	0
	ππ ##			0.699	24	0
	##			0.258	42	1
	##			0.203	32	0
#	##	67	7	0.855	38	1
#	##	68	8	0.845	54	0
	##			0.334	25	0
	##			0.189	27	0
	ππ ##			0.163	28	1
	##			0.411	26	0
	##			0.583	42	1
#	##	74	4	0.231	23	0
#	##	75	5	0.396	22	0
	##			0.140	22	0
	##			0.391	41	0
	##			0.370		
	##			0.270	26	1
	##			0.307	24	0
#	##	81	1	0.140	22	0
	##			0.102	22	0
	##			0.767	36	0
				0.707		
	##				22	0
	##			0.227	37	1
	##			0.698	27	0
#	##	87	7	0.178	45	0
#	##	88	8	0.324	26	0
	##			0.153	43	1
	##			0.165	24	0
	##			0.258	21	0
	##			0.443	34	0
#	##	93	3	0.261	42	0
	##			0.277	60	1
	##			0.761	21	0
	##			0.255	40	0
	##			0.130	24	0
	##			0.323	22	0
#	##	99	9	0.356	23	0
	##				31	1
	##			1.222	33	1
	##			0.179	22	0
	##			0.262	21	0
#	##	10	04	0.283	24	0
#	##	10	05	0.930	27	0
	##			0.801	21	0
	##			0.207	27	
						0
	##			0.287	37	0
#	##	10	09	0.336	25	0
#	##	11	10	0.247	24	1

## 111	0 100	2.4	1
## 111 ## 112	0.199	24	1
		46	
## 113 ## 114	0.192 0.391	23 25	0
## 114 ## 115	0.588	39	0
	0.539	61	1
			1
	0.220	38	
	0.654	25	0
## 119	0.443	22	0
## 120 ## 121	0.223	21 25	0
## 122	0.755	24	0
## 123	0.404	23	0
## 124	0.186	69	0
## 125	0.278	23	1
## 126	0.496	26	1
## 127	0.452	30	0
## 128	0.452	23	0
## 129	0.403	40	1
## 130	0.741	62	1
## 131	0.361	33	1
## 132	1.114	33	1
## 133	0.356	30	1
## 134	0.457	39	0
## 135	0.647	26	0
## 136	0.088	31	0
## 137	0.597	21	0
## 138	0.532	22	0
## 139	0.703	29	0
## 140	0.159	28	0
## 141	0.268	55	0
## 142	0.286	38	0
## 143	0.318	22	0
## 144	0.272	42	1
## 145	0.237	23	0
## 146	0.572	21	0
## 147	0.096	41	0
## 148	1.400	34	0
## 149	0.218	65	0
## 150	0.085	22	0
## 151	0.399	24	0
## 152	0.432	37	0
## 153	1.189	42	1
## 154	0.687	23	0
## 155	0.137	43	1
## 156	0.337	36	1
## 157	0.637	21	0
## 158	0.833	23	0
## 159	0.229	22	0
## 160	0.817	47	1
## 161	0.294	36	0
## 162	0.204	45	0
## 163	0.167	27	0
## 164	0.368	21	0
## 165	0.743	32	1
## 166	0.722	41	1
## 167	0.256	22	0
## 168	0.709	34	0
## 169	0.471	29	0
## 170	0.495	29	0
## 171	0.180	36	1
## 172	0.542	29	1
## 173	0.773	25	0
## 174	0.678	23	0
## 175	0.370	33	0
## 176	0.719	36	1
## 177	0.382	42	0
## 178	0.319	26	1
## 179	0.190 0.956	47	0
## 180 ## 181	0.956	37 32	0
## 182	0.725	23	0
## 102	0.725	23	^

		103		299	Z I	U
		184		268	27	0
		185		244	40	0
		186		745	41	1
		187		615	60	1
		188		321	33	1
		189		640	31	1
#	# :	190		361	25	1
		191		142	21	0
#	# :	192	0.	374	40	0
#	# :	193	0.	383	36	1
#	# :	194	0.	578	40	1
#	# :	195	0.	136	42	0
		196		395	29	1
		197		187	21	0
		198		678	23	1
		199		905	26	1
		200		150	29	1
		201		874	21	0
		202		236	28	0
#	# 2	203	0.	787	32	0
#	# 2	204	0.	235	27	0
#	# 2	205		324	55	0
		206		407	27	0
		207		605	57	1
		208		151	52	1
		209		289	21	0
				355		
		210			41	1
		211		290	25	0
		212		375	24	0
		213		164	60	0
		214		431	24	1
#	# 2	215	0.	260	36	1
#	# 2	216		742	38	1
		217		514	25	1
		218		464	32	0
		210		224	32	1
		220		261	41	1
		221		072	21	1
		222		805	66	1
#	# 2	223	0.	209	37	0
		224		687	61	0
#	# 2	225	0.	666	26	0
		226		101	22	0
		227		198	26	0
		228		652	24	1
		229		329	31	0
		230		089	24	0
		231		645	22	1
		232		238	46	1
		233		583	22	0
		234		394	29	0
		235	0.	293	23	0
#	# :	236	0.	479	26	1
		237		586	51	1
		238		686	23	1
		239		831	32	1
		240		582	27	0
		241		192	21	0
		242		446	22	0
#	# 2	243	0.	402	22	1
#	# 2	244			33	1
		245		329	29	0
		246		213	49	1
		247		258	41	0
		248		427	23	0
		249		282	34	0
		250		143	23	0
#	# 2	251		380	42	0
#	# 2	252		284	27	0
		253		249	24	0
		254		238	25	0
		255			44	1
#	IF 4	<u> </u>	0.	シムゼ	-1 -1	Τ.

#	# 2	56	0.543	21	1
	# 2		0.557	30	0
	# 2		0.092	25	0
	# 2		0.655	24	0
	# 2		1.353	51	1
	# 2		0.299	34	0
	# 2		0.761	27	1
	# 2		0.612	24	0
	# 2		0.200	63	0
	# 2		0.226	35	1
	# 2		0.997	43	0
#	# 2	67	0.933	25	1
#	# 2	68	1.101	24	0
#	# 2	69	0.078	21	0
#	# 2	70	0.240	28	1
	# 2		1.136	38	1
	# 2		0.128	21	0
	# 2		0.254	40	0
	# 2		0.422	21	0
	# 2		0.251	52	0
#	# 2	76	0.677	25	0
#	# 2	77	0.296	29	1
	# 2		0.454	23	0
	# 2		0.744	57	0
	π 2 # 2		0.881	22	0
	# 2		0.334	28	1
	# 2		0.280	39	0
	# 2		0.262	37	0
#	# 2	84	0.165	47	1
#	# 2	85	0.259	52	1
#	# 2	86	0.647	51	0
	# 2		0.619	34	0
	# 2		0.808	29	1
	# 2		0.340	26	0
	# 2		0.263	33	0
	# 2		0.434	21	0
	# 2		0.757	25	1
#	# 2	93	1.224	31	1
#	# 2	94	0.613	24	1
	# 2		0.254	65	0
	# 2		0.692	28	0
	# 2		0.337	29	1
	# 2		0.520	24	0
	# 2		0.412	46	1
	# 3		0.840	58	0
#	# 3	01	0.839	30	1
#	# 3	02	0.422	25	1
	# 3		0.156	35	0
	# 3		0.209	28	1
	# 3		0.207	37	0
	# 3		0.215	29	0
	# 3		0.326	47	1
	# 3		0.143	21	0
#	# 3	09	1.391	25	1
#	# 3	10	0.875	30	1
	# 3		0.313	41	0
	# 3		0.605	22	0
	# 3		0.433	27	1
	# 3		0.626	25	0
	# 3		1.127	43	1
#	# 3	16	0.315	26	0
#	# 3	17	0.284	30	0
	# 3		0.345	29	1
#				28	0
		19	0.150		1
#	# 3		0.150	50	Τ
#	# 3 # 3	20	0.129	59	^
# #	# 3 # 3 # 3	20	0.129 0.527	31	0
# # #	# 3 # 3 # 3 # 3	20 21 22	0.129 0.527 0.197	31 25	1
# # #	# 3 # 3 # 3 # 3	20 21 22 23	0.129 0.527 0.197 0.254	31 25 36	1 1
# # #	# 3 # 3 # 3 # 3	20 21 22 23	0.129 0.527 0.197	31 25	1
# # # # #	# 3 # 3 # 3 # 3	20 21 22 23 24	0.129 0.527 0.197 0.254	31 25 36	1 1
# # # # #	# 3 # 3 # 3 # 3 # 3 # 3	20 21 22 23 24 25	0.129 0.527 0.197 0.254 0.731 0.148	31 25 36 43 21	1 1 1
# # # # #	# 3 # 3 # 3 # 3 # 3 # 3	20 21 22 23 24 25 26	0.129 0.527 0.197 0.254 0.731 0.148	31 25 36 43 21 24	1 1 0 0
# # # # # #	# 3 # 3 # 3 # 3 # 3 # 3	20 21 22 23 24 25 26 27	0.129 0.527 0.197 0.254 0.731 0.148	31 25 36 43 21	1 1 1 0

l			
## 329	0.127	23	1
## 330	0.122	37	0
## 331	1.476	46	0
## 332	0.166	25	0
## 333	0.282	41	1
## 334	0.137	44	0
## 335	0.260	22	0
## 336	0.259	26	0
## 337	0.932	44	0
## 338	0.343	44	1
## 339	0.893	33	1
## 340	0.331	41	1
## 341	0.472	22	0
## 342	0.673	36	0
## 343	0.389	22	0
## 344	0.290	33	0
## 345	0.485	57	0
## 346	0.349	49	0
## 347	0.654	22	0
## 348	0.187	23	0
## 349	0.279		0
		26	
## 350	0.346	37	1
## 351	0.237	29	0
## 352	0.252	30	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
## 360	0.875	29	1
## 361	0.583	29	1
## 362	0.207	63	0
## 363	0.305	65	0
## 364	0.520	67	1
## 365	0.385	30	0
## 366	0.499	30	0
## 367	0.368	29	1
## 368	0.252	21	0
## 369	0.306	22	0
## 370	0.234	45	1
## 371	2.137	25	1
## 372	1.731	21	0
## 373	0.545	21	0
## 374	0.225	25	0
## 375	0.816	28	0
## 376	0.528	58	1
## 377	0.299	22	0
## 378	0.509	22	0
## 379	0.238	32	1
## 380	1.021	35	0
## 381	0.821	24	0
## 382	0.236	22	0
		0.1	0
## 383	0.947	21	0
## 383 ## 384	0.947 1.268	25	0
## 384	1.268	25	
## 384 ## 385	1.268 0.221	25 25	0
## 384 ## 385 ## 386	1.268 0.221 0.205	25 25 24	0 0 0
## 384 ## 385 ## 386 ## 387	1.268 0.221 0.205 0.660	25 25 24 35	0 0 0 1
## 384 ## 385 ## 386 ## 387 ## 388	1.268 0.221 0.205 0.660 0.239	25 25 24 35 45	0 0 0 1 1
## 384 ## 385 ## 386 ## 387 ## 388	1.268 0.221 0.205 0.660 0.239 0.452	25 25 24 35 45 58	0 0 0 1 1
## 384 ## 385 ## 386 ## 387 ## 388	1.268 0.221 0.205 0.660 0.239 0.452 0.949	25 25 24 35 45	0 0 0 1 1
## 384 ## 385 ## 386 ## 387 ## 388	1.268 0.221 0.205 0.660 0.239 0.452	25 25 24 35 45 58	0 0 0 1 1
## 384 ## 385 ## 386 ## 387 ## 388 ## 389	1.268 0.221 0.205 0.660 0.239 0.452 0.949	25 25 24 35 45 58 28	0 0 0 1 1 1
## 384 ## 385 ## 386 ## 387 ## 388 ## 390 ## 391 ## 392	1.268 0.221 0.205 0.660 0.239 0.452 0.949 0.444	25 25 24 35 45 58 28 42 27	0 0 0 1 1 1 0
## 384 ## 385 ## 386 ## 387 ## 388 ## 390 ## 391 ## 392 ## 393	1.268 0.221 0.205 0.660 0.239 0.452 0.949 0.444 0.340 0.389	25 25 24 35 45 58 28 42 27 21	0 0 1 1 1 0 0
## 384 ## 385 ## 386 ## 387 ## 388 ## 390 ## 391 ## 392 ## 393 ## 394	1.268 0.221 0.205 0.660 0.239 0.452 0.949 0.444 0.340 0.389 0.463	25 25 24 35 45 58 28 42 27 21	0 0 0 1 1 1 0 0 0
## 384 ## 385 ## 386 ## 387 ## 388 ## 389 ## 390 ## 391 ## 392 ## 393 ## 394 ## 395	1.268 0.221 0.205 0.660 0.239 0.452 0.949 0.444 0.340 0.389 0.463 0.803	25 25 24 35 45 58 28 42 27 21 37	0 0 0 1 1 1 0 0 0 1
## 384 ## 385 ## 386 ## 387 ## 388 ## 389 ## 390 ## 391 ## 392 ## 393 ## 394 ## 395 ## 396	1.268 0.221 0.205 0.660 0.239 0.452 0.949 0.444 0.340 0.389 0.463 0.803 1.600	25 25 24 35 45 58 28 42 27 21 37 31 25	0 0 0 1 1 1 0 0 0 1 0 0
## 384 ## 385 ## 386 ## 387 ## 388 ## 390 ## 391 ## 392 ## 393 ## 394 ## 395 ## 396 ## 397	1.268 0.221 0.205 0.660 0.239 0.452 0.949 0.444 0.340 0.389 0.463 0.803 1.600 0.944	25 25 24 35 45 58 28 42 27 21 37	0 0 0 1 1 1 0 0 0 1 0 0
## 384 ## 385 ## 386 ## 387 ## 388 ## 389 ## 390 ## 391 ## 392 ## 393 ## 394 ## 395 ## 396	1.268 0.221 0.205 0.660 0.239 0.452 0.949 0.444 0.340 0.389 0.463 0.803 1.600	25 25 24 35 45 58 28 42 27 21 37 31 25	0 0 0 1 1 1 0 0 0 1 0 0
## 384 ## 385 ## 386 ## 387 ## 388 ## 390 ## 391 ## 392 ## 393 ## 394 ## 395 ## 396 ## 397	1.268 0.221 0.205 0.660 0.239 0.452 0.949 0.444 0.340 0.389 0.463 0.803 1.600 0.944	25 25 24 35 45 58 28 42 27 21 37 31 25 39	0 0 0 1 1 1 0 0 0 1 0 0
## 384 ## 385 ## 386 ## 387 ## 388 ## 390 ## 391 ## 392 ## 393 ## 394 ## 395 ## 396 ## 397 ## 398	1.268 0.221 0.205 0.660 0.239 0.452 0.949 0.444 0.340 0.389 0.463 0.803 1.600 0.944 0.196	25 24 35 45 58 28 42 27 21 37 31 25 39 22	0 0 0 1 1 1 0 0 0 1 0 0 1 0 0
## 384 ## 385 ## 386 ## 387 ## 388 ## 390 ## 391 ## 392 ## 393 ## 395 ## 396 ## 397 ## 398 ## 398	1.268 0.221 0.205 0.660 0.239 0.452 0.949 0.444 0.340 0.389 0.463 0.803 1.600 0.944 0.196 0.389	25 25 24 35 45 58 28 42 27 21 37 31 25 39 22 25	0 0 0 1 1 1 0 0 0 1 0 0 0 1

##	4∪⊥	-	O • T Ø T	3 ⊥	Τ
##					
	402		0.151	55	0
##	403	3	0.286	35	1
	404	Į.	0.280	38	0
##	405		0.135	41	1
##	406)	0.520	26	0
	407		0.376	46	1
	408		0.336	25	0
	409		1.191	39	1
	410		0.702	28	1
##	411	=	0.674	28	0
##	412		0.528	25	0
##	413	}	1.076	22	0
	414		0.256	21	0
	415		0.534	21	1
	416		0.258	22	1
##	417	7	1.095	22	0
##	418	}	0.554	37	1
	419		0.624	27	0
	420		0.219	28	1
	421		0.507	26	0
##	422		0.561	21	0
##	423	}	0.496	21	0
##	424	Į.	0.421	21	0
	425		0.516	36	1
	426		0.264	31	1
	427		0.256	25	0
##	428	}	0.328	38	1
##	429)	0.284	26	0
	430		0.233	43	1
	431		0.108	23	0
	432		0.551	38	0
##	433	3	0.527	22	0
##	434	Į.	0.167	29	0
##	435		1.138	36	0
	436		0.205	29	1
	437		0.244		0
				41	
	438		0.434	28	0
##	439)	0.147	21	0
##	440)	0.727	31	0
##	441	_	0.435	41	1
	442		0.497	22	0
	443		0.230	24	0
	444		0.955	33	1
##	445		0.380	30	1
##	446)	2.420	25	1
	447		0.658	28	0
	448		0.330	26	0
	449		0.510	22	1
	450		0.285	26	0
##	451	-	0.415	23	0
##	452)	0.542	23	1
	453		0.381	25	0
	454		0.832	72	0
	455		0.498	24	0
##	456		0.212	38	1
##	457	7	0.687	62	0
	458		0.364	24	0
	459		1.001	51	1
	460		0.460	81	0
##	461	-	0.733	48	0
	462		0.416	26	0
	463		0.705	39	0
	464		0.258	37	0
##	465		1.022	34	0
##	466	5	0.452	21	0
##	467	1	0.269	22	0
	468		0.600	25	0
11 11					
	469		0.183	38	1
##	470)	0.571	27	0
##	470				
##	470	-	0.607	28	0
##	471		0.607		
## ## ##		2	0.607 0.170 0.259	28 22 22	0 0

# # # # # # # # # # # # # # # # # # #	тт ч	171	0.00		
# # # # # # # # # # # # # # # # # # #	## 4	4/4	0.23	LO 5	0 0
# # # # # # # # # # # # # # # # # # #	## 4		0.12		4 0
# # # # # # # # # # # # # # # # # # #	## 4		0.23		9 0
# # # # # # # # # # # # # # # # # # #	## 4		0.7		9 1
# # # # # # # # # # # # # # # # # # #	## 4		0.4		1 0
# # # # # # # # # # # # # # # # # # #					
# # # # # # # # # # # # # # # # # # #	## 4		0.1		9 0
# # # # # # # # # # # # # # # # # # #	## 4	480	0.41		3 0
# # # # # # # # # # # # # # # # # # #	## 4	481	0.3	14 3	5 1
# # # # # # # # # # # # # # # # # # #	## 4	482	0.19	97 2	:9 0
# # # # # # # # # # # # # # # # # # #	## 4	483	0.30)6 2	.8 0
# # # # # # # # # # # # # # # # # # #	## 4		0.23		:3 0
# # # # # # # # # # # # # # # # # # #			0.63		1 1
# # # # # # # # # # # # # # # # # # #					
# # # # # # # # # # # # # # # # # # #	## 4		0.30		4 1
# # # # # # # # # # # # # # # # # # #	## 4	487	0.53	36 2	1 0
# # # # # # # # # # # # # # # # # # #	## 4	488	1.1	59 5	8 0
# # # # # # # # # # # # # # # # # # #	## 4		0.29		8 0
# # # # # # # # # # # # # # # # # # #	## 4		0.5		57 0
# # # # # # # # # # # # # # # # # # #					
# # # # # # # # # # # # # # # # # # #	## 4		0.62		4 0
# # # # # # # # # # # # # # # # # # #	## 4	492	0.29	92 4	2 0
# # # # # # # # # # # # # # # # # # #	## 4	493	0.1	15 3	3 0
# # # # # # # # # # # # # # # # # # #	## 4		1.1		5 1
# # # # # # # # # # # # # # # # # # #	τπ = ## 4				
# # # # # # # # # # # # # # # # # # #			0.1		2 0
# # # # # # # # # # # # # # # # # # #	## 4		0.30		6 0
# # # # # # # # # # # # # # # # # # #	## 4	497	0.29	92 3	0 0
# # # # # # # # # # # # # # # # # # #	## 4	498	0.5	17 2	:5 0
# # # # # # # # # # # # # # # # # # #	## 4		0.10		5 1
# # # # # # # # # # # # # # # # # # #			0.83		9 0
# # # # # # # # # # # # # # # # # # #					
# # # # # # # # # # # # # # # # # # #	## 5		0.33		1 0
# # # # # # # # # # # # # # # # # # #	## 5	502	0.20	57 2	8 0
# # # # # # # # # # # # # # # # # # #	## 5	503	0.72	27 4	1 1
# # # # # # # # # # # # # # # # # # #	## 5		0.73		1 0
# # # # # # # # # # # # # # # # # # #	## 5		0.23		.0 0
# # # # # # # # # # # # # # # # # # #					
# # # # # # # # # # # # # # # # # # #	## 5		0.2		8 0
# # # # # # # # # # # # # # # # # # #	## 5		0.33		5 1
# # # # # # # # # # # # # # # # # # #	## 5	508	0.69	92 2	1 0
# # # # # # # # # # # # # # # # # # #	## 5	509	0.9		:1 0
# # # # # # # # # # # # # # # # # # #	## 5		0.40		4 0
# # # # # # # # # # # # # # # # # # #					
# # # # # # # # # # # # # # # # # # #	## 5		0.29		6 1
# # # # # # # # # # # # # # # # # # #	## 5	512	0.20		1 0
# # # # # # # # # # # # # # # # # # #	## 5	513	0.20	00 5	8 0
# # # # # # # # # # # # # # # # # # #	## 5	514		25 2	2 0
# # # # # # # # # # # # # # # # # # #	## 5			54 2	
#####################					
# # # # # # # # # # # # # # # # # # # #			0.20		
# # # # # # # # # # # # # # # # # # # #	## 5		0.7		
# # # # # # # # # # # # # # # # # # # #	## 5	518	0.30) 4 5	1 0
# # # # # # # # # # # # # # # # # # #	## 5		0.18		
# # # # # # # # # # # # # #	## 5		0.58		
# # # # # # # # # # # #					
# # # # # # # # # #			0.18		
# # # # # # # # # #	## 5		0.30		6 0
# # # # # # # # # #	## 5	523	0.18	39 2	:6 0
# # # # # # # #	## 5		0.6		5 1
# # # # # # # #	## 5		0.1		
# # # # # #					
##	## 5		0.4		
##	## 5		0.29		1 0
##	## 5	528	0.10	7 2	4 0
##	## 5		0.49		2 0
	## 5		0.60		
0.0					
	## 5		0.73		
##	## 5	532	0.68	36 2	4 0
##	## 5	533	0.93		.9 0
	## 5		0.50		
	## 5		1.2		
	## 5		0.30		
##	## 5	537	0.19	97 4	6 0
	## 5		0.73		57 0
	## 5		0.80		
	## 5		0.9		
##	## 5	541	0.60	51 4	3 1
	## 5		0.5		.7 1
	## 5		0.82		
	## 5		0.1		:5 0
##	## 5	545	0.30	55 2	9 0
##	## 5	546	0.43	23 3	7 1

			_
## 547	1.034	53	1
## 548	0.160	28	0
## 549	0.341	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	0.126	42	0
## 560	0.300	35	0
## 561	0.121	54	1
			1
## 562	0.502	28	
## 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	0.338	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
## 581	0.371	21	1
## 582	0.206	27	0
## 583	0.259	62	0
## 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
## 593	0.402	44	1
## 594	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		
## 604	U . n 9/.	54	1
		2.6	-1
## 605	0.212	36	1
## 606	0.212 0.514	21	0
	0.212		
## 606	0.212 0.514	21	0
## 606 ## 607	0.212 0.514 1.258	21 22	0
## 606 ## 607 ## 608	0.212 0.514 1.258 0.482	21 22 25	0 1 0
## 606 ## 607 ## 608 ## 609 ## 610	0.212 0.514 1.258 0.482 0.270 0.138	21 22 25 27 23	0 1 0 0
## 606 ## 607 ## 608 ## 609 ## 610	0.212 0.514 1.258 0.482 0.270 0.138 0.292	21 22 25 27 23 24	0 1 0 0 0
## 606 ## 607 ## 608 ## 609 ## 610 ## 611 ## 612	0.212 0.514 1.258 0.482 0.270 0.138 0.292 0.593	21 22 25 27 23 24 36	0 1 0 0 0 0
## 606 ## 607 ## 608 ## 609 ## 610 ## 611 ## 612 ## 613	0.212 0.514 1.258 0.482 0.270 0.138 0.292 0.593 0.787	21 22 25 27 23 24 36 40	0 1 0 0 0 0 0 1
## 606 ## 607 ## 608 ## 609 ## 610 ## 611 ## 612 ## 613 ## 614	0.212 0.514 1.258 0.482 0.270 0.138 0.292 0.593 0.787 0.878	21 22 25 27 23 24 36 40 26	0 1 0 0 0 0 1 1
## 606 ## 607 ## 608 ## 609 ## 610 ## 611 ## 612 ## 613	0.212 0.514 1.258 0.482 0.270 0.138 0.292 0.593 0.787	21 22 25 27 23 24 36 40	0 1 0 0 0 0 0 1
## 606 ## 607 ## 608 ## 609 ## 610 ## 611 ## 612 ## 613 ## 614	0.212 0.514 1.258 0.482 0.270 0.138 0.292 0.593 0.787 0.878	21 22 25 27 23 24 36 40 26	0 1 0 0 0 0 1 1
## 606 ## 607 ## 608 ## 609 ## 610 ## 611 ## 612 ## 613 ## 614 ## 615	0.212 0.514 1.258 0.482 0.270 0.138 0.292 0.593 0.787 0.878 0.557	21 22 25 27 23 24 36 40 26 50	0 1 0 0 0 0 1 1 0
## 606 ## 607 ## 608 ## 609 ## 610 ## 611 ## 612 ## 613 ## 614 ## 615 ## 615	0.212 0.514 1.258 0.482 0.270 0.138 0.292 0.593 0.787 0.878 0.557	21 22 25 27 23 24 36 40 26 50	0 1 0 0 0 0 1 1 0 1
## 606 ## 607 ## 608 ## 609 ## 610 ## 611 ## 612 ## 613 ## 614 ## 615 ## 616 ## 616	0.212 0.514 1.258 0.482 0.270 0.138 0.292 0.593 0.787 0.878 0.557 0.207	21 22 25 27 23 24 36 40 26 50 27 30	0 1 0 0 0 0 1 1 0 1

	013	1.282	D U	1
	620	0.141	24	1
	621	0.246	28	0
	622	1.698	28	0
	623	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
	631	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
		0.649	23	0
	638			
	639	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	0.134	30	0
	647	0.447	33	1
	648	0.455	22	1
##	649	0.260	42	1
##	650	0.133	23	0
	651	0.234	23	0
	652	0.466	27	0
	653	0.269	28	0
	654	0.455	27	0
	655	0.142	22	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	22	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
		0.181	29	0
	000	0.181		
##	600	0 878	23	0
##	689			
##	689 690 691	0.335	46 34	1

#	## 6		0.	257	1.1	1
#				231	44	_
	## 6	593	0.	886	23	0
	## 6			439	43	1
	## 6			191	25	0
	## 6			128	43	1
	## 6			268	31	1
1	## 6	598		253	22	0
1	## 6	599	0.	598	28	0
#	## 7	700	0.	904	26	0
1	## 7	701	0.	483	26	0
	## 7			565	49	1
	## 7			905		
					52	1
	## 7			304	41	0
1	## 7	705	0.	118	27	0
1	## 7	706	0.	177	28	0
	## 7			261	30	1
	## 7			176	22	0
	## 7			148	45	1
1	## 7	710	0.	674	23	1
1	## 7	711	0.	295	24	0
	## 7			439	40	0
	## 7			441	38	1
	## 7			352	21	0
	## 7			121	32	0
1	## 7	716	0.	826	34	1
	## 7			970	31	1
	## 7			595	56	0
	## 7			415	24	0
1	## 7	720	0.	378	52	1
- +	## 7	721	0.	317	34	0
#	## 7	722		289	21	0
	## 7			349	42	1
	## 7			251	42	0
	## 7			265	45	0
#	## 7	726	0.	236	38	0
1	## 7	727	0.	496	25	0
	## 7			433	22	0
	## 7			326	22	0
	## 7			141	22	0
	## 7			323	34	1
1	## 7	732	0.	259	22	1
	## 7			646		1
	## 7				22	0
	## 7				53	0
	## 7				28	0
1	## 7	737	0.	515	21	0
	## 7				42	0
	## 7			453		0
	## 7				42	1
	## 7			785	48	1
#	## 7	742	0.	400	26	0
	## 7			219		0
	## 7			734		1
	## 7				39	0
#	## 7	746	0.	488	46	0
	## 7			358	27	1
	## 7				32	0
	## 7				36	1
1	## 7	750	0.	178	50	1
	## 7			182	22	1
	## 7				28	0
	## 7			223		0
	## 7			222		1
#	## 7	755	0.	443	45	1
	## 7			057	37	1
	## 7				39	0
	## 7			258	52	1
#	## 7	759		197	26	0
1 .	## 7	760	0.	278	66	1
7		761			22	0
#				4111.3	43	1
#	## 7	762		403		
#		762			33	0

```
0.340 27 0
## 765
## 766
                         0.245 30
                                        0
## 767
                          0.349 47
                                         1
                          0.315 23
## 768
                                          Ω
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
chooseCRANmirror(graphics=FALSE, ind=1)
#t-test
attach (diabetes)
with (data=diabetes, t.test (Pregnancies [Outcome==1], Pregnancies [Outcome==0], var.equal=TRUE))
##
## Two Sample t-test
## data: Pregnancies[Outcome == 1] and Pregnancies[Outcome == 0]
## t = 6.2984, df = 766, p-value = 5.065e-10
\#\# alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## 1.079067 2.056276
## sample estimates:
## mean of x mean of y
## 4.865672 3.298000
with (data=diabetes, t.test (Glucose [Outcome==1], Glucose [Outcome==0], var.equal=TRUE))
##
## Two Sample t-test
##
## data: Glucose[Outcome == 1] and Glucose[Outcome == 0]
## t = 14.6, df = 766, p-value < 2.2e-16
\#\# alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## 27.07202 35.48291
## sample estimates:
## mean of x mean of y
## 141.2575 109.9800
with(data=diabetes,t.test(Insulin[Outcome==1],Insulin[Outcome==0],var.equal=TRUE))
##
## Two Sample t-test
##
## data: Insulin[Outcome == 1] and Insulin[Outcome == 0]
## t = 3.6443, df = 766, p-value = 0.0002862
\#\# alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## 14.55231 48.53533
## sample estimates:
## mean of x mean of y
## 100.3358 68.7920
with(data=diabetes,t.test(SkinThickness[Outcome==1],SkinThickness[Outcome==0],var.equal=TRUE))
##
## Two Sample t-test
##
## data: SkinThickness[Outcome == 1] and SkinThickness[Outcome == 0]
## t = 2.0747, df = 766, p-value = 0.03835
\#\# alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## 0.1345284 4.8658298
## sample estimates:
```

mean of x mean of y ## 22.16418 19.66400

```
with(data=diabetes,t.test(BMI[Outcome==1],BMI[Outcome==0],var.equal=TRUE))
##
## Two Sample t-test
##
## data: BMI[Outcome == 1] and BMI[Outcome == 0]
\#\# t = 8.4718, df = 766, p-value < 2.2e-16
\#\# alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## 3.717214 5.959460
## sample estimates:
\#\# mean of x mean of y
## 35.14254 30.30420
with(data=diabetes,t.test(DiabetesPedigreeFunction[Outcome==0],DiabetesPedigreeFunction[Outcome==1],var.equa
##
## Two Sample t-test
##
## data: DiabetesPedigreeFunction[Outcome == 0] and DiabetesPedigreeFunction[Outcome == 1]
\#\# t = -4.8858, df = 766, p-value = 1.255e-06
\#\# alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -0.16928831 -0.07224369
## sample estimates:
## mean of x mean of y
## 0.429734 0.550500
with(data=diabetes,t.test(Age[Outcome==1],Age[Outcome==0],var.equal=TRUE))
##
## Two Sample t-test
##
## data: Age[Outcome == 1] and Age[Outcome == 0]
## t = 6.7927, df = 766, p-value = 2.21e-11
\#\# alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## 4.178682 7.575646
## sample estimates:
## mean of x mean of y
## 37.06716 31.19000
with(data=diabetes,t.test(BloodPressure[Outcome==1],BloodPressure[Outcome==0],var.equal=TRUE))
## Two Sample t-test
## data: BloodPressure[Outcome == 1] and BloodPressure[Outcome == 0]
## t = 1.8047, df = 766, p-value = 0.07151
\#\# alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -0.2317162 5.5129700
## sample estimates:
## mean of x mean of y
## 70.82463 68.18400
#Hotelling
install.packages("Hotelling")
```

Installing package into 'C:/Users/siddh/OneDrive/Documents/R/win-library/3.5'

(as 'lib' is unspecified)

```
## package 'Hotelling' successfully unpacked and MD5 sums checked
##
## The downloaded binary packages are in
## C:\Users\siddh\AppData\Local\Temp\RtmpoFYzmw\downloaded_packages
library (Hotelling)
## Warning: package 'Hotelling' was built under R version 3.5.2
## Loading required package: corpcor
## Warning: package 'corpcor' was built under R version 3.5.2
t2testsparr <- hotelling.test(Pregnancies + Glucose + Insulin + SkinThickness + BMI+ DiabetesPedigreeFunctio
n + Age ~ Outcome, data=diabetes)
cat("T2 statistic =",t2testsparr$stat[[1]],"\n")
## T2 statistic = 321.5672
print(t2testsparr)
## Test stat: 45.578
## Numerator df: 7
## Denominator df: 760
## P-value: 0
#F-test
attach (diabetes)
## The following objects are masked from diabetes (pos = 5):
##
       Age, BloodPressure, BMI, DiabetesPedigreeFunction, Glucose,
##
##
      Insulin, Outcome, Pregnancies, SkinThickness
var.test(Pregnancies[Outcome==1], Pregnancies[Outcome==0])
##
## F test to compare two variances
##
## data: Pregnancies[Outcome == 1] and Pregnancies[Outcome == 0]
\#\# F = 1.5375, num df = 267, denom df = 499, p-value = 4.246e-05
\#\# alternative hypothesis: true ratio of variances is not equal to 1
## 95 percent confidence interval:
## 1.249880 1.904318
## sample estimates:
## ratio of variances
             1.537543
var.test(Glucose[Outcome==1], Glucose[Outcome==0])
##
## F test to compare two variances
##
## data: Glucose[Outcome == 1] and Glucose[Outcome == 0]
\#\# F = 1.4928, num df = 267, denom df = 499, p-value = 0.0001392
\#\# alternative hypothesis: true ratio of variances is not equal to 1
```

95 percent confidence interval:

1.492824

1.213527 1.848931
sample estimates:
ratio of variances

##

```
var.test(Insulin[Outcome==1], Insulin[Outcome==0])
## F test to compare two variances
## data: Insulin[Outcome == 1] and Insulin[Outcome == 0]
## F = 1.9679, num df = 267, denom df = 499, p-value = 9.062e-11
\ensuremath{\#\#} alternative hypothesis: true ratio of variances is not equal to 1
## 95 percent confidence interval:
## 1.599699 2.437302
## sample estimates:
## ratio of variances
            1.967873
var.test(SkinThickness[Outcome==1], SkinThickness[Outcome==0])
##
## F test to compare two variances
##
## data: SkinThickness[Outcome == 1] and SkinThickness[Outcome == 0]
\#\# F = 1.4098, num df = 267, denom df = 499, p-value = 0.001112
\#\# alternative hypothesis: true ratio of variances is not equal to 1
## 95 percent confidence interval:
## 1.146054 1.746129
## sample estimates:
## ratio of variances
\# \#
            1.409821
var.test(BMI[Outcome==1],BMI[Outcome==0])
##
## F test to compare two variances
## data: BMI[Outcome == 1] and BMI[Outcome == 0]
## F = 0.89206, num df = 267, denom df = 499, p-value = 0.295
\#\# alternative hypothesis: true ratio of variances is not equal to 1
## 95 percent confidence interval:
## 0.7251585 1.1048520
## sample estimates:
## ratio of variances
           0.8920555
var.test(DiabetesPedigreeFunction[Outcome==0]), DiabetesPedigreeFunction[Outcome==0])
##
## F test to compare two variances
## data: DiabetesPedigreeFunction[Outcome == 1] and DiabetesPedigreeFunction[Outcome == 0]
## F = 1.55, num df = 267, denom df = 499, p-value = 3.03e-05
## alternative hypothesis: true ratio of variances is not equal to 1
```

```
var.test(Age[Outcome==1], Age[Outcome==0])
```

95 percent confidence interval:

1.549969

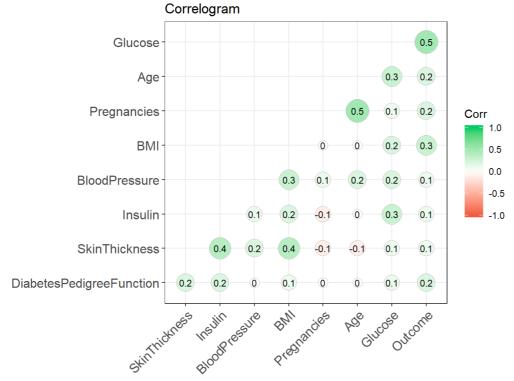
1.259981 1.919708 ## sample estimates: ## ratio of variances

##

```
F test to compare two variances
\# \#
## data: Age[Outcome == 1] and Age[Outcome == 0]
## F = 0.88371, num df = 267, denom df = 499, p-value = 0.2569
## alternative hypothesis: true ratio of variances is not equal to 1
## 95 percent confidence interval:
## 0.7183712 1.0945108
## sample estimates:
## ratio of variances
            0.8837061
var.test(BloodPressure[Outcome==1],BloodPressure[Outcome==0])
## F test to compare two variances
##
## data: BloodPressure[Outcome == 1] and BloodPressure[Outcome == 0]
\#\# F = 1.4157, num df = 267, denom df = 499, p-value = 0.0009661
## alternative hypothesis: true ratio of variances is not equal to 1
## 95 percent confidence interval:
   1.150810 1.753375
## sample estimates:
## ratio of variances
##
            1.415672
#levene Test - To test equality of variables
install.packages("car")
## Installing package into 'C:/Users/siddh/OneDrive/Documents/R/win-library/3.5'
## (as 'lib' is unspecified)
## package 'car' successfully unpacked and MD5 sums checked
\# \#
## The downloaded binary packages are in
\verb|## C:\Users\siddh\AppData\Local\Temp\RtmpoFYzmw\downloaded\_packages|
library(car)
## Warning: package 'car' was built under R version 3.5.2
## Loading required package: carData
## Warning: package 'carData' was built under R version 3.5.2
#diabetes$Outcome <- is.factor(diabetes$outcome)</pre>
#levels(diabetes$Outcome) <- c("Non-Diabetic", "Diabetic")</pre>
#leveneTest(diabetes$Pregnancies, diabetes$Outcome,center=mean)
with (diabetes, leveneTest (Outcome, Pregnancies))
## Warning in leveneTest.default(Outcome, Pregnancies): Pregnancies coerced to
## factor.
## Levene's Test for Homogeneity of Variance (center = median)
     Df F value Pr(>F)
##
## group 16 1.7726 0.03078 *
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
with(diabetes,leveneTest(Outcome,BMI))
## Warning in leveneTest.default(Outcome, BMI): BMI coerced to factor.
## Levene's Test for Homogeneity of Variance (center = median)
## Df F value Pr(>F)
## group 247 0.726 0.9978
with(diabetes, leveneTest(Outcome, Insulin))
## Warning in leveneTest.default(Outcome, Insulin): Insulin coerced to factor.
## Levene's Test for Homogeneity of Variance (center = median)
## Df F value Pr(>F)
## group 185 0.6804 0.999
##
        582
with(diabetes,leveneTest(Outcome,BloodPressure))
## Warning in leveneTest.default(Outcome, BloodPressure): BloodPressure
## coerced to factor.
## Levene's Test for Homogeneity of Variance (center = median)
## Df F value Pr(>F)
## group 46 1.0258 0.4279
\#\,\#
       721
with(diabetes,leveneTest(Outcome,Age))
## Warning in leveneTest.default(Outcome, Age): Age coerced to factor.
## Levene's Test for Homogeneity of Variance (center = median)
## Df F value Pr(>F)
## group 51 1.2615 0.1094
##
        716
# Correlation matrix
#This plot shows us correlation coeeficents of all the varaibles.
corr <- round(cor(diabetes), 1)</pre>
# Plot
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`.

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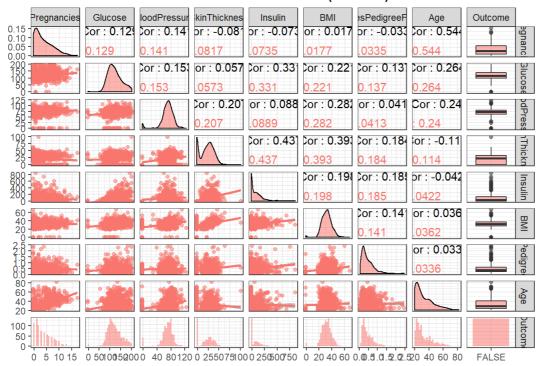
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.

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

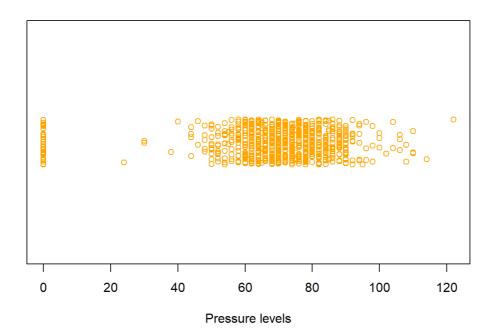
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.

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```

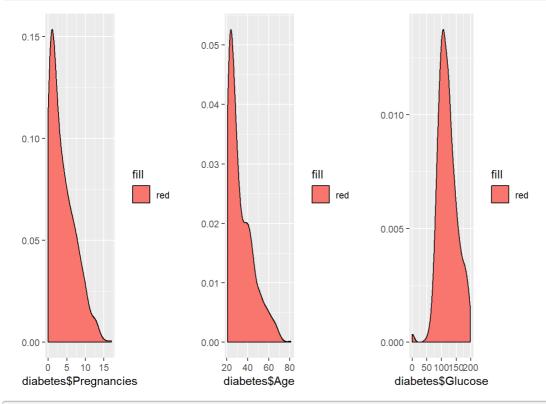
Correlation Plot of Variance(diabetes)



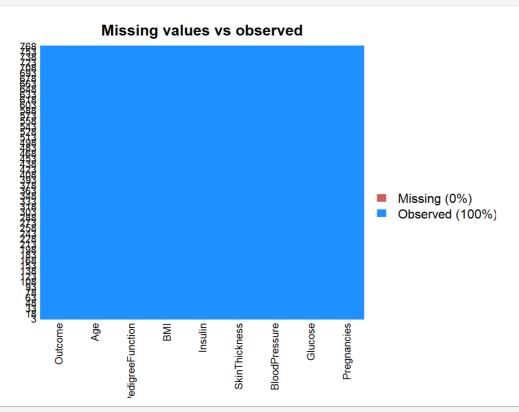
Blood pressure levels



```
#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.