breast_cancer.R

roshn

Fri Feb 22 15:43:58 2019

```
#Roshni Suhanda : 188009850 : MITA
#Multivariate Analysis
#Part 2 of Project : Breast Cancer Analysis

#Loading and Reading the data here
wisc_bc_df <- read.csv("C:/Users/roshn/Desktop/RBS/mva/wisc_bc_data.csv")
wisc_bc_df</pre>
```

444		4.4	diagnosis	radius moan	toytura maan	norimotor moon	2502 5025
##				_	-	perimeter_mean	_
##	1	87139402	В	12.320	12.39	78.85	464.1
##	2	8910251	В	10.600	18.95	69.28	346.4
##	3	905520	В	11.040	16.83	70.92	373.2
##	4	868871	В	11.280	13.39	73.00	384.8
##	5	9012568	В	15.190	13.21	97.65	711.8
##	6	906539	В	11.570	19.04	74.20	409.7
##	7	925291	В	11.510	23.93	74.52	403.5
##	8	87880	M	13.810	23.75	91.56	597.8
##	9	862989	В	10.490	19.29	67.41	336.1
##	10	89827	В	11.060	14.96	71.49	373.9
##	11	91485	M	20.590	21.24	137.80	1320.0
##	12	8711003	В	12.250	17.94	78.27	460.3
##	13	9113455	В	13.140	20.74	85.98	536.9
##	14	857810	В	13.050	19.31	82.61	527.2
##	15	9111805	M	19.590	25.00	127.70	1191.0
##	16	925277	В	14.590	22.68	96.39	657.1
##	17	867387	В	15.710	13.93	102.00	761.7
##	18	89511502	В	12.670	17.30	81.25	489.9
##	19	89263202	M	20.090	23.86	134.70	1247.0
##	20	866714	В	12.190	13.29	79.08	455.8

##	21	874373	В	11.710	17.19	74.68	420.3
##	22	919812	В	11.690	24.44	76.37	406.4
##	23	904971	В	10.940	18.59	70.39	370.0
##	24	866458	В	15.100	16.39	99.58	674.5
##	25	864292	В	10.510	20.19	68.64	334.2
##	26	859983	M	13.800	15.79	90.43	584.1
##	27	862009	В	13.450	18.30	86.60	555.1
##	28	852973	M	15.300	25.27	102.40	732.4
##	29	898143	В	9.606	16.84	61.64	280.5
##	30	9010877	В	13.400	16.95	85.48	552.4
##	31	893548	В	13.050	13.84	82.71	530.6
##		868202	M	12.770	22.47	81.72	506.3
##		9113538	М	17.600	23.33	119.00	980.5
##		905501	В	12.270	17.92	78.41	466.1
##		915940	В	14.580	13.66	94.29	658.8
##		9013594	В	13.660	15.15	88.27	580.6
##		859575	M	18.940	21.31	123.60	1130.0
##		869476	В	11.900	14.65	78.11	432.8
##		8712729	M	16.780	18.80	109.30	886.3
##		8912280	M	16.240	18.77	108.80	805.1
##		887549	М	20.310	27.06	132.90	1288.0
##		871201	М	19.590	18.15	130.70	1214.0
##		84348301	М	11.420	20.38	77.58	386.1
##		897604	В	12.990	14.23	84.08	514.3
##		911673	В	13.900	16.62	88.97	599.4
##		877159	М	18.080	21.84	117.40	1024.0
##		90769601	В	11.130	16.62	70.47	381.1
	48	899987	М	25.730	17.46	174.20	2010.0
##		90401601	В	13.510	18.89	88.10	558.1
##		892604	В	12.460	19.89	80.43	471.3
##		8810987	М	13.860	16.93	90.96	578.9
##		88147102	В	15.000	15.51	97.45	684.5
##		904357	В	11.800	17.26	75.26	431.9
##		883270	В	14.220	27.85	92.55	623.9
##		878796	M	23.290	26.67	158.90	1685.0
##		8611161	В	13.340	15.86	86.49	520.0
##	57	91550	В	11.740	14.69	76.31	426.0

58	874158	В	10.080	15.11	63.76	317.5
59	865423	M	24.250	20.20	166.20	1761.0
60	89122	M	19.400	18.18	127.20	1145.0
61	855625	M	19.070	24.81	128.30	1104.0
62	8712766	M	17.470	24.68	116.10	984.6
63	881094802	M	17.420	25.56	114.50	948.0
64	855167	M	13.440	21.58	86.18	563.0
65	8511133	M	15.340	14.26	102.50	704.4
66	8712064	В	12.340	22.22	79.85	464.5
67	8813129	В	13.270	17.02	84.55	546.4
		В				664.9
	8911834	В	13.850	15.18	88.99	587.4
70		В	11.670			416.2
		М	13.480			559.2
						310.8
						244.5
						992.1
						880.2
						466.1
						1041.0
						394.1
						504.1
						991.7
						685.9
						463.7
						546.1
						651.9
						386.3
						515.9
						468.5
						557.2
						1404.0
						571.0
						508.8
						480.1
						758.6
94	9112594	В	13.000	25.13	82.61	520.2
	61 62 63 64 65 66 67 68	59 865423 60 89122 61 855625 62 8712766 63 881094802 64 855167 65 8511133 66 8712064 67 8813129 68 89382601 69 8911834 70 91903901 71 855138 72 897880 73 894329 74 91376702 75 8711216 76 861597 77 874217 78 859465 79 89382602 80 90524101 81 8712853 82 874839 83 901041 84 861598 85 901549 86 8913 87 91813702 88 9112085 89 851509 90 917896 91 873586 92 914580	59 865423 M 60 89122 M 61 855625 M 62 8712766 M 63 881094802 M 64 855167 M 65 8511133 M 66 8712064 B 67 8813129 B 68 89382601 B 69 8911834 B 70 91903901 B 71 855138 M 72 897880 B 73 894329 B 74 91376702 B 75 8711216 B 76 861597 B 77 874217 M 78 859465 B 80 90524101 M 81 8712853 B 82 874839 B 83 901041 B 84 861598 B 85 901549 B 86 8913	59 865423 M 24.250 60 89122 M 19.400 61 855625 M 19.070 62 8712766 M 17.470 63 881094802 M 17.420 64 855167 M 13.440 65 8511133 M 15.340 66 8712064 B 12.340 67 8813129 B 13.270 68 89382601 B 14.610 69 8911834 B 13.850 70 91903901 B 11.670 71 855138 M 13.480 72 897880 B 10.050 73 894329 B 9.042 74 91376702 B 17.850 75 8711216 B 16.840 76 861597 B 12.360 77 874217 M 18.310 79 89382602 B 12.760 80 90524101 <t< th=""><th>59 865423 M 24.250 20.20 60 89122 M 19.400 18.18 61 855625 M 19.070 24.81 62 8712766 M 17.470 24.68 63 881094802 M 17.420 25.56 64 855167 M 13.440 21.58 65 8511133 M 15.340 14.26 66 8712064 B 12.340 22.22 67 8813129 B 13.270 17.02 68 89382601 B 14.610 15.69 69 8911834 B 13.850 15.18 70 91903901 B 11.670 20.02 71 855138 M 13.480 20.82 72 897880 B 10.050 17.53 73 894329 B 9.042 18.90 74 91376702 B 17.850 13.23 75 871216 B 16.840 19.46</th><th>59 865423 M 24.250 20.20 166.20 60 89122 M 19.400 18.18 127.20 61 855625 M 19.070 24.81 128.30 62 8712766 M 17.470 24.68 116.10 63 881094802 M 17.420 25.56 114.50 64 855167 M 13.440 21.58 86.18 65 8511133 M 15.340 14.26 102.50 66 8712064 B 12.340 22.22 79.85 67 8813129 B 13.270 17.02 84.55 68 89382601 B 14.610 15.69 92.68 68 8931834 B 13.850 15.18 88.99 70 91903901 B 11.670 20.02 75.21 71 855138 M 13.480 20.82 88.40 72 897880</th></t<>	59 865423 M 24.250 20.20 60 89122 M 19.400 18.18 61 855625 M 19.070 24.81 62 8712766 M 17.470 24.68 63 881094802 M 17.420 25.56 64 855167 M 13.440 21.58 65 8511133 M 15.340 14.26 66 8712064 B 12.340 22.22 67 8813129 B 13.270 17.02 68 89382601 B 14.610 15.69 69 8911834 B 13.850 15.18 70 91903901 B 11.670 20.02 71 855138 M 13.480 20.82 72 897880 B 10.050 17.53 73 894329 B 9.042 18.90 74 91376702 B 17.850 13.23 75 871216 B 16.840 19.46	59 865423 M 24.250 20.20 166.20 60 89122 M 19.400 18.18 127.20 61 855625 M 19.070 24.81 128.30 62 8712766 M 17.470 24.68 116.10 63 881094802 M 17.420 25.56 114.50 64 855167 M 13.440 21.58 86.18 65 8511133 M 15.340 14.26 102.50 66 8712064 B 12.340 22.22 79.85 67 8813129 B 13.270 17.02 84.55 68 89382601 B 14.610 15.69 92.68 68 8931834 B 13.850 15.18 88.99 70 91903901 B 11.670 20.02 75.21 71 855138 M 13.480 20.82 88.40 72 897880

44	95	874858	M	14.220	23.12	94.37	609.9
	96	896839	M M	16.030	15.51	105.80	793.2
		904689	В	12.960	18.29	84.18	525.2
		891703	В	11.850	17.46	75.54	432.7
	90		В		17.40		
		8812844		10.180		65.12	313.1
	100 101	8611555	M B	25.220	24.91	171.50	1878.0
		8910720		10.710	20.39	69.50	344.9
	102	875099	В	9.720	18.22	60.73	288.1
	103	8910748	В	11.290	13.04	72.23	388.0
	104	848406	М	14.680	20.13	94.74	684.5
	105	884448	В	13.200	17.43	84.13	541.6
	106	911685	В	11.490	14.59	73.99	404.9
	107	9010258	В	12.560	19.07	81.92	485.8
	108	91544001	В	12.220	20.04	79.47	453.1
	109	923465	В	10.820	24.21	68.89	361.6
	110	906290	В	11.160	21.41	70.95	380.3
		863031	В	11.640	18.33	75.17	412.5
		871001502	В	8.219	20.70	53.27	203.9
	113	86517	М	18.660	17.12	121.40	1077.0
	114	84667401	М	13.730	22.61	93.60	578.3
	115	857343	В	11.760	21.60	74.72	427.9
	116	909445	М	17.270	25.42	112.40	928.8
	117	877500	М	14.450	20.22	94.49	642.7
	118	903507	М	15.490	19.97	102.40	744.7
	119	8811842	М	19.800	21.56	129.70	1230.0
	120	9010259	В	13.050	18.59	85.09	512.0
		86561	В	13.850	17.21	88.44	588.7
##		881046502	М	20.580	22.14	134.70	1290.0
##		893061	В	11.600	24.49	74.23	417.2
	124	9011971	М	21.710	17.25	140.90	1546.0
		898690	В	11.470	16.03	73.02	402.7
		89296	В	11.460	18.16	73.59	403.1
		863030	М	13.110	15.56	87.21	530.2
	128	90291	М	14.600	23.29	93.97	664.7
		866203	М	19.000	18.91	123.40	1138.0
		91979701	М	14.270	22.55	93.77	629.8
##	131	907914	М	14.900	22.53	102.10	685.0

## 132	906878	В	13.660	19.13	89.46	575.3
## 133	922296	В	13.210	28.06	84.88	538.4
## 134	926424	М	21.560	22.39	142.00	1479.0
## 135	91544002	В	11.060	17.12	71.25	366.5
## 136	852552	М	16.650	21.38	110.00	904.6
## 137	903483	В	8.734	16.84	55.27	234.3
## 138	871122	В	12.060	12.74	76.84	448.6
## 139	89742801	М	17.060	21.00	111.80	918.6
## 140	857374	В	11.940	18.24	75.71	437.6
## 141	852781	М	18.610	20.25	122.10	1094.0
## 142	842302	М	17.990	10.38	122.80	1001.0
## 143	926682	М	20.130	28.25	131.20	1261.0
## 144		М	14.250	22.15	96.42	645.7
## 145	852763	М	14.580	21.53	97.41	644.8
## 146		В	11.810	17.39	75.27	428.9
## 147		М	15.780	17.89	103.60	781.0
## 148		В	16.500	18.29	106.60	838.1
## 149		В	12.430	17.00	78.60	477.3
## 150		В	12.360	18.54	79.01	466.7
## 151		В	12.490	16.85	79.19	481.6
## 152		В	9.742	19.12	61.93	289.7
## 153		В	12.900	15.92	83.74	512.2
## 154		В	10.320	16.35	65.31	324.9
## 155		В	14.410	19.73	96.03	651.0
	901034301	В	9.436	18.32	59.82	278.6
## 157		В	13.590	17.84	86.24	572.3
## 158		М	10.950	21.35	71.90	371.1
## 159		В	10.570	18.32	66.82	340.9
## 160		В	13.490	22.30	86.91	561.0
## 161		В	13.270	14.76	84.74	551.7
## 162		В	11.260	19.96	73.72	394.1
## 163		В	13.870	16.21	88.52	593.7
## 164		В	9.000	14.40	56.36	246.3
## 165		М	23.090	19.83	152.10	1682.0
## 166		М	27.220	21.87	182.10	2250.0
## 167		В	14.340	13.47	92.51	641.2
## 168	888570	М	17.290	22.13	114.40	947.8

##	169	8711002	В	13.150	15.34	85.31	538.9
##	170	869931	В	13.740	17.91	88.12	585.0
##	171	85715	М	13.170	18.66	85.98	534.6
##	172	908489	M	13.980	19.62	91.12	599.5
##	173	84458202	M	13.710	20.83	90.20	577.9
##	174	8910499	В	13.590	21.84	87.16	561.0
##	175	87163	М	13.430	19.63	85.84	565.4
##	176	8610908	В	12.860	18.00	83.19	506.3
	177	857637	M	19.210	18.57	125.50	1152.0
	178	904302	В	11.060	14.83	70.31	378.2
##	179	857010	М	18.650	17.60	123.70	1076.0
	180	862965	В	12.180	20.52	77.22	458.7
	181	877501	В	12.230	19.56	78.54	461.0
	182	8610404	M	16.070	19.65	104.10	817.7
##	183	891923	В	13.770	13.27	88.06	582.7
##	184	879523	М	15.120	16.68	98.78	716.6
	185	897132	В	11.220	19.86	71.94	387.3
	186	891936	В	10.910	12.35	69.14	363.7
	187	881972	M	17.050	19.08	113.40	895.0
	188	867739	M	18.450	21.91	120.20	1075.0
	189	894618	M	20.160	19.66	131.10	1274.0
	190	8910996	В	9.742	15.67	61.50	289.9
	191	869104	М	16.110	18.05	105.10	813.0
	192	904647	В	11.930	10.91	76.14	442.7
	193	911384	В	14.920	14.93	96.45	686.9
	194	84799002	М	14.540	27.54	96.73	658.8
	195	873701	М	15.700	20.31	101.20	766.6
	196	8611792	М	19.100	26.29	129.10	1132.0
	197	9010018	М	15.080	25.74	98.00	716.6
	198	861648	В	14.620	24.02	94.57	662.7
	199	91813701	В	13.460	18.75	87.44	551.1
	200	902975	В	12.210	14.09	78.78	462.0
	201	855133	М	14.990	25.20	95.54	698.8
	202	90745	В	10.800	21.98	68.79	359.9
	203	905557	В	14.990	22.11	97.53	693.7
	204	86408	В	12.630	20.76	82.15	480.4
##	205	89864002	В	11.710	15.45	75.03	420.3

##	206	915460	М	15.460	23.95	103.80	731.3
##	207	911320501	В	11.600	18.36	73.88	412.7
##	208	892189	М	11.760	18.14	75.00	431.1
##	209	893526	В	13.500	12.71	85.69	566.2
##	210	873593	М	21.090	26.57	142.70	1311.0
##	211	8912284	В	12.890	15.70	84.08	516.6
##	212	857793	М	14.710	21.59	95.55	656.9
##	213	859717	М	17.200	24.52	114.20	929.4
##	214	902727	В	13.280	13.72	85.79	541.8
##	215	911391	В	10.880	15.62	70.41	358.9
##	216	858970	В	10.170	14.88	64.55	311.9
##	217	917080	В	12.750	16.70	82.51	493.8
##	218	911654	В	14.200	20.53	92.41	618.4
##	219	843786	M	12.450	15.70	82.57	477.1
##	220	8712289	М	23.270	22.04	152.10	1686.0
##	221	891716	В	12.720	13.78	81.78	492.1
##	222	906024	В	12.700	12.17	80.88	495.0
##	223	892438	М	19.530	18.90	129.50	1217.0
##	224	861103	В	11.450	20.97	73.81	401.5
##	225	871642	В	10.660	15.15	67.49	349.6
##	226	894047	В	8.597	18.60	54.09	221.2
##	227	915276	В	9.676	13.14	64.12	272.5
##	228	908194	M	20.180	19.54	133.80	1250.0
##	229	877989	М	17.540	19.32	115.10	951.6
##	230	897137	В	11.250	14.78	71.38	390.0
##	231	9112366	В	11.630	29.29	74.87	415.1
	232	904969	В	12.340	14.95	78.29	469.1
	233	86409	В	14.260	19.65	97.83	629.9
	234	8953902	М	16.270	20.71	106.90	813.7
	235	924084	В	12.770	29.43	81.35	507.9
	236	913512	В	11.680	16.17	75.49	420.5
	237	87556202	М	14.860	23.21	100.40	671.4
	238	91805	В	8.571	13.10	54.53	221.3
	239	88466802	В	10.650	25.22	68.01	347.0
	240	884437	В	10.480	19.86	66.72	337.7
	241	886452	М	13.960	17.05	91.43	602.4
##	242	864496	В	8.726	15.83	55.84	230.9

##	243	905539	В	9.397	21.68	59.75	268.8
##	244	888264	M	17.350	23.06	111.00	933.1
##	245	885429	М	19.730	19.82	130.70	1206.0
##	246	923169	В	9.683	19.34	61.05	285.7
##	247	907367	В	10.030	21.28	63.19	307.3
##	248	921386	В	14.470	24.99	95.81	656.4
##	249	85713702	В	8.196	16.84	51.71	201.9
	250	9111843	В	12.000	28.23	76.77	442.5
##	251	914862	В	15.040	16.74	98.73	689.4
	252	887181	M	15.660	23.20	110.20	773.5
	253	903011	В	11.270	15.50	73.38	392.0
	254	90439701	M	17.910	21.02	124.40	994.0
	255	918192	В	13.940	13.17	90.31	594.2
	256	905978	В	9.405	21.70	59.60	271.2
	257	911150	В	14.530	19.34	94.25	659.7
	258	905502	В	11.360	17.57	72.49	399.8
	259	859487	В	12.780	16.49	81.37	502.5
	260	8510426	В	13.540	14.36	87.46	566.3
	261	903554	В	12.100	17.72	78.07	446.2
	262	924934	В	10.290	27.61	65.67	321.4
	263	8670	М	15.460	19.48	101.70	748.9
	264	91227	В	13.900	19.24	88.73	602.9
	265	85382601	М	17.020	23.98	112.80	899.3
	266	844981	М	13.000	21.82	87.50	519.8
	267	8811779	В	10.200	17.48	65.05	321.2
	268	859711	В	8.888	14.64	58.79	244.0
	269	91376701	В	12.250	22.44	78.18	466.5
	270	884180	М	19.400	23.50	129.10	1155.0
	271	90401602	В	12.800	17.46	83.05	508.3
	272	846226	М	19.170	24.80	132.40	1123.0
	273	903811	В	14.060	17.18	89.75	609.1
	274	8610175	В	12.310	16.52	79.19	470.9
	275	877486	М	19.180	22.49	127.50	1148.0
	276	8810703	М	28.110	18.47	188.50	2499.0
	277	914333	В	14.870	20.21	96.12	680.9
	278	926954	М	16.600	28.08	108.30	858.1
##	279	923748	В	10.860	21.48	68.51	360.5

## 280	921092	В	7.729	25.49	47.98	178.8
## 281	8610637	M	18.050	16.15	120.20	1006.0
## 282	91789	В	11.260	19.83	71.30	388.1
## 283	898678	В	12.060	18.90	76.66	445.3
## 284	88350402	В	13.640	15.60	87.38	575.3
## 285	889719	M	17.190	22.07	111.60	928.3
## 286	913102	В	14.640	16.85	94.21	666.0
## 287	8810955	М	14.190	23.81	92.87	610.7
## 288	916838	M	19.890	20.26	130.50	1214.0
## 289	884948	M	20.940	23.56	138.90	1364.0
## 290	914366	В	12.650	18.17	82.69	485.6
## 291	925236	В	9.423	27.88	59.26	271.3
## 292	9013005	В	13.690	16.07	87.84	579.1
## 293	875938	M	13.770	22.29	90.63	588.9
## 294	9011495	В	12.210	18.02	78.31	458.4
## 295	9012000	M	22.010	21.90	147.20	1482.0
## 296	91762702	M	24.630	21.60	165.50	1841.0
## 297	919555	М	20.550	20.86	137.80	1308.0
## 298	849014	М	19.810	22.15	130.00	1260.0
## 299	918465	В	12.070	13.44	77.83	445.2
## 300	911916	М	16.250	19.51	109.80	815.8
## 301	8711803	М	19.190	15.94	126.30	1157.0
## 302	892214	В	14.260	18.17	91.22	633.1
## 303	871149	В	10.900	12.96	68.69	366.8
## 304	915691	М	13.400	20.52	88.64	556.7
## 305	8812877	М	15.750	20.25	102.60	761.3
## 306	88206102	М	20.510	27.81	134.40	1319.0
## 307	925622	М	15.220	30.62	103.40	716.9
## 308	9047	В	12.940	16.17	83.18	507.6
## 309	86973701	В	14.950	18.77	97.84	689.5
## 310	8812818	В	13.560	13.90	88.59	561.3
## 311	91930402	М	20.470	20.67	134.70	1299.0
## 312	8860702	М	17.300	17.08	113.00	928.2
## 313	912558	В	13.700	17.64	87.76	571.1
## 314	8911164	В	11.890	17.36	76.20	435.6
## 315	856106	M	13.280	20.28	87.32	545.2
## 316	9013579	В	13.460	28.21	85.89	562.1

## 317	84358402	М	20.290	14.34	135.10	1297.0
## 318	88299702	М	23.210	26.97	153.50	1670.0
## 319	923780	В	11.130	22.44	71.49	378.4
## 320	89869	В	14.760	14.74	94.87	668.7
## 321	913063	В	12.450	16.41	82.85	476.7
## 322	854253	М	16.740	21.59	110.10	869.5
## 323	86208	М	20.260	23.03	132.40	1264.0
## 324	864685	В	11.930	21.53	76.53	438.6
## 325	883539	В	12.420	15.04	78.61	476.5
## 326		М	18.460	18.52	121.10	1075.0
## 327	88249602	В	14.030	21.25	89.79	603.4
## 328		М	15.780	22.91	105.70	782.6
	871001501	В	13.000	20.78	83.51	519.4
## 330		М	23.510	24.27	155.10	1747.0
## 331	868999	В	9.738	11.97	61.24	288.5
## 332		В	12.870	19.54	82.67	509.2
## 333		В	10.800	9.71	68.77	357.6
## 334		В	12.180	14.08	77.25	461.4
## 335		М	14.950	17.57	96.85	678.1
## 336		В	15.270	12.91	98.17	725.5
	901034302	В	12.540	18.07	79.42	491.9
## 338		В	9.029	17.33	58.79	250.5
## 339	897630	М	18.770	21.43	122.90	1092.0
## 340		В	15.730	11.28	102.80	747.2
## 341		В	16.140	14.86	104.30	800.0
## 342		М	19.020	24.59	122.00	1076.0
## 343		М	16.260	21.88	107.50	826.8
## 344		В	11.300	18.19	73.93	389.4
## 345		М	16.160	21.54	106.20	809.8
## 346		В	9.777	16.99	62.50	290.2
## 347		В	8.878	15.49	56.74	241.0
## 348		В	11.430	17.31	73.66	398.0
## 349		М	15.050	19.07	97.26	701.9
## 350		В	11.990	24.89	77.61	441.3
## 351		В	14.020	15.66	89.59	606.5
## 352		М	17.570	15.05	115.00	955.1
## 353	924632	В	12.880	28.92	82.50	514.3

##	354	864018	В	11.340	21.26	72.48	396.5
##	355	859283	М	14.780	23.94	97.40	668.3
##	356	859464	В	9.465	21.01	60.11	269.4
##	357	879804	В	9.876	17.27	62.92	295.4
##	358	8810528	В	11.840	18.94	75.51	428.0
##	359	844359	M	18.250	19.98	119.60	1040.0
##	360	924342	В	9.333	21.94	59.01	264.0
##	361	883263	M	20.480	21.46	132.50	1306.0
##	362	846381	М	15.850	23.95	103.70	782.7
##	363	9113846	В	12.270	29.97	77.42	465.4
##	364	90317302	В	10.260	12.22	65.75	321.6
##	365	86211	В	12.180	17.84	77.79	451.1
##	366	921385	В	11.540	14.44	74.65	402.9
##	367	8711202	M	17.680	20.74	117.40	963.7
##	368	9112712	В	9.755	28.20	61.68	290.9
##	369	893988	В	11.540	10.72	73.73	409.1
##	370	886226	M	19.450	19.33	126.50	1169.0
##	371	91505	В	12.540	16.32	81.25	476.3
##	372	859196	В	9.173	13.86	59.20	260.9
##	373	897374	В	12.300	19.02	77.88	464.4
##	374	912193	В	12.160	18.03	78.29	455.3
##	375	911202	В	12.620	17.15	80.62	492.9
##	376	914101	В	12.460	12.83	78.83	477.3
##	377	921644	В	14.740	25.42	94.70	668.6
##	378	90251	В	12.390	17.48	80.64	462.9
	379	8911230	В	11.330	14.16	71.79	396.6
	380	884689	В	11.520	14.93	73.87	406.3
	381	909231	В	13.850	19.60	88.68	592.6
	382	892399	В	10.510	23.09	66.85	334.2
	383	86135501	M	14.480	21.46	94.25	648.2
	384	854039	М	16.130	17.88	107.00	807.2
	385	916221	В	11.340	18.61	72.76	391.2
	386	922840	В	10.260	16.58	65.85	320.8
	387	8910988	M	21.750	20.99	147.30	1491.0
	388	892657	В	10.490	18.61	66.86	334.3
	389	862717	M	13.610	24.98	88.05	582.7
##	390	915452	В	16.300	15.70	104.70	819.8

110732	М	17.750	28.03	117.30	981.6
925311	В	11.200	29.37	70.67	386.0
357373	В	13.640	16.34	87.21	571.8
912049	M	19.160	26.60	126.20	1138.0
903902	В	13.680	16.33	87.76	575.5
902976	В	13.880	16.16	88.37	596.6
906616	В	11.610	16.02	75.46	408.2
361799	M	15.370	22.76	100.20	728.2
398431	M	19.680	21.68	129.90	1194.0
362261	В	9.787	19.94	62.11	294.5
917897	В		15.68		293.2
365468	В	13.370	16.39	86.10	553.5
	М		26.47		1162.0
	М		17.35		1335.0
					542.9
					1293.0
					788.5
					403.3
					682.5
					279.6
					512.2
					395.7
					355.3
					423.6
					427.3
					1167.0
					399.8
					641.2
					1234.0
					432.0
					300.2
					712.8
					381.9
					248.7
					402.0
					499.0
399147	В	11.950	14.90	11.23	426.7
	925311 957373 912049 903902 902976 906616 961799 98431 962261 917897	925311 B 837373 B 912049 M 903902 B 906616 B 8361799 M 8398431 M 8362261 B 917897 B 8354002 M 901288 M 813239 B 901088 M 801303 B 8365137 B 8364729 M 8382488 B 839202 B 836823 B 913505 M 8686223 B 89813 B 91494 M 837383 B 915186 B 873843 B 922302 M	325311 B 11.200 357373 B 13.640 3012049 M 19.160 303902 B 13.680 302976 B 13.880 306616 B 11.610 361799 M 15.370 398431 M 19.680 362261 B 9.787 3017897 B 9.847 365468 B 13.370 3654002 M 19.270 301288 M 20.640 313239 B 13.240 301088 M 20.440 301303 B 16.170 364729 M 14.870 382488 B 9.567 384626 B 12.890 39202 B 11.320 368223 B 11.710 368823 B 11.740 368682 B 11.430 389813 B 14.420 369691 M 11.800 3710441	825311 B 11.200 29.37 857373 B 13.640 16.34 812049 M 19.160 26.60 803902 B 13.680 16.33 802976 B 13.880 16.16 806616 B 11.610 16.02 861799 M 15.370 22.76 898431 M 19.680 21.68 862261 B 9.787 19.94 8017897 B 9.847 15.68 805468 B 13.370 16.39 854002 M 19.270 26.47 801288 M 20.640 17.35 813239 B 13.240 20.13 801088 M 20.440 21.78 801303 B 16.170 16.07 824488 B 9.567 15.91 884626 B 12.890 14.11 899202 B 11.320 27.08 869254 B 10.750 14.97 <	325311 B 11.200 29.37 70.67 357373 B 13.640 16.34 87.21 3012049 M 19.160 26.60 126.20 303902 B 13.680 16.33 87.76 302976 B 13.880 16.16 88.37 306616 B 11.610 16.02 75.46 361799 M 15.370 22.76 100.20 398431 M 19.680 21.68 129.90 362261 B 9.787 19.94 62.11 317897 B 9.847 15.68 63.00 365468 B 13.370 16.39 86.10 354002 M 19.270 26.47 127.90 301288 M 20.640 17.35 134.80 313239 B 13.240 20.13 86.87 301330 B 16.170 16.07 106.30 365137 B

##	428	908469	В	14.860	16.94	94.89	673.7
##	429	924964	В	10.160	19.59	64.73	311.7
##	430	886776	М	15.320	17.27	103.20	713.3
##	431	866083	М	13.610	24.69	87.76	572.6
##	432	916799	М	18.310	20.58	120.80	1052.0
##	433	8612080	В	12.000	15.65	76.95	443.3
##	434	914769	М	18.490	17.52	121.30	1068.0
##	435	909411	В	10.970	17.20	71.73	371.5
##	436	89524	В	14.110	12.88	90.03	616.5
##	437	8911670	М	18.810	19.98	120.90	1102.0
##	438	875878	В	12.910	16.33	82.53	516.4
	439	858477	В	8.618	11.79	54.34	224.5
	440	8711561	В	11.750	20.18	76.10	419.8
	441	896864	В	12.980	19.35	84.52	514.0
	442	922576	В	13.620	23.23	87.19	573.2
	443	862028	М	15.060	19.83	100.30	705.6
	444	912519	В	13.470	14.06	87.32	546.3
	445	88330202	М	17.460	39.28	113.40	920.6
	446	8510824	В	9.504	12.44	60.34	273.9
	447	88411702	В	13.750	23.77	88.54	590.0
	448	895299	В	12.030	17.93	76.09	446.0
	449	8811523	В	11.890	18.35	77.32	432.2
		911296201	М	17.080	27.15	111.20	930.9
	451	88147101	В	10.440	15.46	66.62	329.6
	452	875263	М	12.340	26.86	81.15	477.4
	453	90312	М	19.550	23.21	128.90	1174.0
	454	9111596	В	11.870	21.54	76.83	432.0
	455	905686	В	11.890	21.17	76.39	433.8
	456	86973702	В	14.440	15.18	93.97	640.1
	457	8610629	В	13.530	10.94	87.91	559.2
	458	88995002	М	20.730	31.12	135.70	1419.0
	459	872113	В	8.671	14.45	54.42	227.2
	460	873357	В	13.010	22.22	82.01	526.4
		911296202	М	27.420	26.27	186.90	2501.0
	462	908445	М	18.820	21.97	123.70	1110.0
	463	901836	В	11.040	14.93	70.67	372.7
##	464	90944601	В	13.780	15.79	88.37	585.9

##	465	852631	M	17.140	16.40	116.00	912.7
##	466	907915	В	12.400	17.68	81.47	467.8
##	467	89344	В	13.200	15.82	84.07	537.3
##	468	9110127	М	18.030	16.85	117.50	990.0
##	469	894604	В	10.250	16.18	66.52	324.2
##	470	909220	В	14.040	15.98	89.78	611.2
##	471	875093	В	12.770	21.41	82.02	507.4
##	472	8712291	В	14.970	19.76	95.50	690.2
##	473	854941	В	13.030	18.42	82.61	523.8
##	474	88119002	М	19.530	32.47	128.00	1223.0
##	475	9113816	В	12.040	28.14	76.85	449.9
	476	894326	М	18.220	18.87	118.70	1027.0
	477	90250	В	12.050	22.72	78.75	447.8
		911157302	М	21.100	20.52	138.10	1384.0
	479	8915	В	14.960	19.10	97.03	687.3
	480	91504	М	13.820	24.49	92.33	595.9
	481	865432	В	14.500	10.89	94.28	640.7
	482	862548	М	14.420	19.77	94.48	642.5
	483	853401	М	18.630	25.11	124.80	1088.0
	484	872608	В	9.904	18.06	64.60	302.4
	485	899187	В	11.660	17.07	73.70	421.0
	486	899667	М	15.750	19.22	107.10	758.6
	487	9113778	В	9.667	18.49	61.49	289.1
	488	86355	М	22.270	19.67	152.80	1509.0
	489	914102	В	13.160	20.54	84.06	538.7
	490	9013838	М	11.080	18.83	73.30	361.6
	491	914062	М	18.010	20.56	118.40	1007.0
	492	927241	М	20.600	29.33	140.10	1265.0
	493	87164	М	15.460	11.89	102.50	736.9
	494	919537	В	10.960	17.62	70.79	365.6
	495	858981	В	8.598	20.98	54.66	221.8
	496	917062	В	12.880	18.22	84.45	493.1
	497	862980	В	9.876	19.40	63.95	298.3
	498	85638502	М	13.170	21.81	85.42	531.5
	499	88649001	М	19.550	28.77	133.60	1207.0
	500	88725602	М	15.530	33.56	103.70	744.9
##	501	913535	М	16.690	20.20	107.10	857.6

##	502	845636	М	16.020	23.24	102.70	797.8
##	503	84862001	M	16.130	20.68	108.10	798.8
##	504	901315	В	10.570	20.22	70.15	338.3
##	505	911366	В	11.620	18.18	76.38	408.8
##	506	88203002	В	11.220	33.81	70.79	386.8
##	507	8910721	В	14.290	16.82	90.30	632.6
##	508	915664	В	14.810	14.70	94.66	680.7
##	509	926125	M	20.920	25.09	143.00	1347.0
##	510	90602302	M	15.500	21.08	102.90	803.1
##	511	8510653	В	13.080	15.71	85.63	520.0
##	512	8911163	M	17.930	24.48	115.20	998.9
##	513	853612	M	11.840	18.70	77.93	440.6
##	514	8812816	В	13.650	13.16	87.88	568.9
##	515	9012315	M	16.350	23.29	109.00	840.4
##	516	881861	M	12.830	22.33	85.26	503.2
##	517	842517	M	20.570	17.77	132.90	1326.0
##	518	84300903	M	19.690	21.25	130.00	1203.0
##	519	857392	M	18.220	18.70	120.30	1033.0
	520	8810158	В	13.110	22.54	87.02	529.4
##	521	907409	В	10.480	14.98	67.49	333.6
	522	87930	В	12.470	18.60	81.09	481.9
##	523	905680	M	15.130	29.81	96.71	719.5
	524	92751	В	7.760	24.54	47.92	181.0
##	525	862722	В	6.981	13.43	43.79	143.5
	526	8910506	В	12.870	16.21	82.38	512.2
	527	88147202	В	12.620	23.97	81.35	496.4
	528	865128	M	17.950	20.01	114.20	982.0
	529	89143601	В	11.370	18.89	72.17	396.0
	530	9113514	В	9.668	18.10	61.06	286.3
	531	8912909	В	11.940	20.76	77.87	441.0
	532	921362	В	7.691	25.44	48.34	170.4
	533	90769602	В	12.720	17.67	80.98	501.3
	534	87281702	M	16.460	20.11	109.30	832.9
	535	866674	М	19.790	25.12	130.40	1192.0
	536	911408	В	12.830	15.73	82.89	506.9
	537	85759902	В	11.520	18.75	73.34	409.0
##	538	893783	В	11.700	19.11	74.33	418.7

##	539	922297	В	13.870	20.70	89.77	584.8
##	540	862485	В	11.600	12.84	74.34	412.6
##	541	879830	М	17.010	20.26	109.70	904.3
##	542	917092	В	9.295	13.90	59.96	257.8
##	543	8912521	В	12.580	18.40	79.83	489.0
##	544	895100	M	20.340	21.51	135.90	1264.0
##	545	8610862	М	20.180	23.97	143.70	1245.0
##	546	891670	В	12.950	16.02	83.14	513.7
	547	864726	В	8.950	15.76	58.74	245.2
	548	9010598	В	12.760	18.84	81.87	496.6
##	549	925292	В	14.050	27.15	91.38	600.4
	550	857155	В	12.050	14.63	78.04	449.3
	551	905190	В	12.850	21.37	82.63	514.5
	552	901011	В	11.140	14.07	71.24	384.6
	553	84501001	М	12.460	24.04	83.97	475.9
	554	91858	В	11.750	17.56	75.89	422.9
	555	9112367	В	13.210	25.25	84.10	537.9
	556	903516	М	21.610	22.28	144.40	1407.0
	557	88518501	В	11.500	18.45	73.28	407.4
	558	906564	В	14.690	13.98	98.22	656.1
	559	871641	В	11.080	14.71	70.21	372.7
	560	9110944	В	14.800	17.66	95.88	674.8
	561	854268	М	14.250	21.72	93.63	633.0
	562	89511501	В	12.200	15.21	78.01	457.9
	563	9113156	В	14.400	26.99	92.25	646.1
	564	894855	В	12.860	13.32	82.82	504.8
		911320502	В	13.170	18.22	84.28	537.3
	566	898677	В	10.260	14.71	66.20	321.6
	567	873885	М	15.280	22.41	98.92	710.6
	568	911201	В	14.530	13.98	93.86	644.2
	569	9012795	М	21.370	15.10	141.30	1386.0
##		smoothness_mean	compa	_		_	
##		0.10280		0.06981	0.0398700	0.037000	
##		0.09688		0.11470	0.0638700	0.026420	
##		0.10770		0.07804	0.0304600	0.024800	
##		0.11640		0.11360	0.0463500	0.047960	
##	5	0.07963		0.06934	0.0339300	0.026570	

0.08546	0.07722	0.0548500	0.014280
0.09261	0.10210	0.1112000	0.041050
0.13230	0.17680	0.1558000	0.091760
0.09989	0.08578	0.0299500	0.012010
0.10330	0.09097	0.0539700	0.033410
0.10850	0.16440	0.2188000	0.112100
0.08654	0.06679	0.0388500	0.023310
0.08675	0.10890	0.1085000	0.035100
0.08060	0.03789	0.0006920	0.004167
0.10320	0.09871	0.1655000	0.090630
0.08473	0.13300	0.1029000	0.037360
0.09462	0.09462	0.0713500	0.059330
0.10280	0.07664	0.0319300	0.021070
	0.18380		0.128000
			0.028820
			0.032390
			0.045310
			0.029320
			0.085340
			0.030680
			0.050690
			0.027800
			0.087510
			0.022920
			0.014730
			0.008829
			0.027040
			0.100200
			0.026530
			0.043490
			0.024710
			0.079510
			0.030030
			0.065760
			0.090520
			0.093330
0.11200	0.10000	U.23U8UUU	0.128600
	0.09261 0.13230 0.09989 0.10330 0.10850 0.08654 0.08675 0.08060 0.10320 0.08473 0.09462	0.09261 0.10210 0.13230 0.17680 0.09989 0.08578 0.10330 0.09097 0.10850 0.16440 0.08654 0.06679 0.08675 0.10890 0.08060 0.03789 0.10320 0.09871 0.08473 0.13300 0.09462 0.09462 0.10280 0.07664 0.10800 0.18380 0.10660 0.09509 0.09774 0.06141 0.12360 0.15520 0.10040 0.07460 0.11500 0.18070 0.11220 0.13030 0.10220 0.08165 0.10820 0.16970 0.08481 0.09228 0.07937 0.05696 0.08352 0.03735 0.09289 0.20040 0.08685 0.06526 0.09832 0.08918 0.08268 0.07548 0.09099 0.10290 0.11520 0.12960 0.08865 0.09182	0.09261 0.10210 0.1112000 0.13230 0.17680 0.1558000 0.09989 0.08578 0.0299500 0.10330 0.09097 0.0539700 0.10850 0.16440 0.2188000 0.08654 0.06679 0.0388500 0.08675 0.10890 0.1085000 0.08060 0.03789 0.0006920 0.10320 0.09871 0.1655000 0.09462 0.09462 0.0713500 0.10280 0.07664 0.0319300 0.10800 0.18380 0.2283000 0.10660 0.09509 0.0285500 0.09774 0.06141 0.0380900 0.11230 0.18070 0.1138000 0.11220 0.13030 0.0647600 0.10240 0.07460 0.0494400 0.11220 0.13030 0.0647600 0.10220 0.08165 0.0397400 0.10820 0.16970 0.1683000 0.098481 0.09228 0.0842200 0.09955 0.05761 0.0471100 0.09885 0.06526

## 43	0.14250	0.28390	0.2414000	0.105200
## 44	0.09462	0.09965	0.0373800	0.020980
## 45	0.06828	0.05319	0.0222400	0.013390
## 46	0.07371	0.08642	0.1103000	0.057780
## 47	0.08151	0.03834	0.0136900	0.013700
## 48	0.11490	0.23630	0.3368000	0.191300
## 49	0.10590	0.11470	0.0858000	0.053810
## 50	0.08451	0.10140	0.0683000	0.030990
## 51	0.10260	0.15170	0.0990100	0.056020
## 52	0.08371	0.10960	0.0650500	0.037800
## 53	0.09087	0.06232	0.0285300	0.016380
## 54	0.08223	0.10390	0.1103000	0.044080
## 55	0.11410	0.20840	0.3523000	0.162000
## 56	0.10780	0.15350	0.1169000	0.069870
## 57	0.08099	0.09661	0.0672600	0.026390
## 58	0.09267	0.04695	0.0015970	0.002404
## 59	0.14470	0.28670	0.4268000	0.201200
## 60	0.10370	0.14420	0.1626000	0.094640
## 61	0.09081	0.21900	0.2107000	0.099610
## 62	0.10490	0.16030	0.2159000	0.104300
## 63	0.10060	0.11460	0.1682000	0.065970
## 64	0.08162	0.06031	0.0311000	0.020310
## 65	0.10730	0.21350	0.2077000	0.097560
## 66	0.10120	0.10150	0.0537000	0.028220
## 67	0.08445	0.04994	0.0355400	0.024560
## 68	0.07618	0.03515	0.0144700	0.018770
## 69	0.09516	0.07688	0.0447900	0.037110
## 70	0.10160	0.09453	0.0420000	0.021570
## 71	0.10160	0.12550	0.1063000	0.054390
## 72	0.10070	0.07326	0.0251100	0.017750
## 73	0.09968	0.19720	0.1975000	0.049080
## 74	0.07838	0.06217	0.0444500	0.041780
## 75	0.07445	0.07223	0.0515000	0.027710
## 76	0.08772	0.09445	0.0601500	0.037450
## 77 ## 78	0.08588	0.08468 0.04701	0.0816900 0.0370900	0.058140
## 78	0.08139 0.08794	0.04701	0.0370900	0.022300 0.025480
## /9	0.00/94	0.0/940	0.0403200	0.023460

##	80	0.10360	0.13040	0.1201000	0.088240
##	81	0.09855	0.07885	0.0260200	0.037810
##	82	0.08080	0.07253	0.0384400	0.016540
##	83	0.08582	0.06373	0.0334400	0.024240
##	84	0.11320	0.13390	0.0996600	0.070640
##	85	0.12370	0.11110	0.0790000	0.055500
##	86	0.06955	0.03729	0.0226000	0.011710
##	87	0.09003	0.06307	0.0295800	0.026470
##	88	0.09245			0.032640
##					0.086320
##	90	0.09916	0.10700	0.0538500	0.037830
##					0.013300
##					0.023690
##					0.028470
##					0.017620
##					0.066180
##					0.070410
##					0.018830
					0.022800
					0.019150
					0.184500
					0.028670
					0.000000
					0.027550
					0.052590
					0.011050
					0.019690
					0.043910
					0.021660
					0.008160
					0.010760
					0.034850
					0.021680
					0.086650
					0.080250
					0.011150
##	110	0.00331	0.11090	0.1204000	0.057360
	#######################################	## 82 ## 83 ## 84 ## 85 ## 86 ## 87 ## 88 ## 89 ## 90 ## 91 ## 92 ## 93 ## 94 ## 95 ## 96 ## 97 ## 98 ## 99 ## 100 ## 101 ## 102 ## 103 ## 104 ## 105 ## 106 ## 107 ## 108 ## 109 ## 110 ## 111 ## 111 ## 112 ## 113 ## 114 ## 115	## 81	## 81	## 81

## 1	17	0.09872	0.12060	0.1180000	0.059800
## 1	18	0.11600	0.15620	0.1891000	0.091130
## 1	19	0.09383	0.13060	0.1272000	0.086910
## 1	20	0.10820	0.13040	0.0960300	0.056030
## 1	21	0.08785	0.06136	0.0142000	0.011410
## 1	22	0.09090	0.13480	0.1640000	0.095610
## 1	23	0.07474	0.05688	0.0197400	0.013130
## 1	24	0.09384	0.08562	0.1168000	0.084650
		0.09076	0.05886	0.0258700	0.023220
		0.08853	0.07694	0.0334400	0.015020
		0.13980	0.17650	0.2071000	0.096010
		0.08682	0.06636	0.0839000	0.052710
		0.08217	0.08028	0.0927100	0.056270
		0.10380	0.11540	0.1463000	0.061390
		0.09947	0.22250	0.2733000	0.097110
		0.09057	0.11470	0.0965700	0.048120
		0.08671	0.06877	0.0298700	0.032750
		0.11100	0.11590	0.2439000	0.138900
		0.11940	0.10710	0.0406300	0.042680
		0.11210	0.14570	0.1525000	0.091700
		0.10390	0.07428	0.0000000	0.000000
		0.09311	0.05241	0.0197200	0.019630
		0.11190	0.10560	0.1508000	0.099340
		0.08261	0.04751	0.0197200	0.013490
		0.09440	0.10660	0.1490000	0.077310
		0.11840	0.27760	0.3001000	0.147100
		0.09780	0.10340	0.1440000	0.097910
		0.10490	0.20080	0.2135000	0.086530
		0.10540	0.18680	0.1425000	0.087830
		0.10070	0.05562	0.0235300	0.015530
		0.09710	0.12920	0.0995400	0.066060
		0.09686	0.08468	0.0586200	0.048350
		0.07557	0.03454	0.0134200	0.016990
		0.08477	0.06815	0.0264300	0.019210
## 1 ## 1		0.08511 0.10750	0.03834	0.0044730 0.0089340	0.006423
## 1		0.08677	0.08333 0.09509	0.0489400	0.019670 0.030880
## I	J.)	U. UOU / /	0.09009	0.0409400	0.00000

##	154	0.09434	0.04994	0.0101200	0.005495
##	155	0.08757	0.16760	0.1362000	0.066020
##	156	0.10090	0.05956	0.0271000	0.014060
##	157	0.07948	0.04052	0.0199700	0.012380
##	158	0.12270	0.12180	0.1044000	0.056690
##	159	0.08142	0.04462	0.0199300	0.011110
##	160	0.08752	0.07698	0.0475100	0.033840
##	161	0.07355	0.05055	0.0326100	0.026480
##	162	0.08020	0.11810	0.0927400	0.055880
##	163	0.08743	0.05492	0.0150200	0.020880
##	164	0.07005	0.03116	0.0036810	0.003472
##	165	0.09342	0.12750	0.1676000	0.100300
##	166	0.10940	0.19140	0.2871000	0.187800
##	167	0.09906	0.07624	0.0572400	0.046030
##	168	0.08999	0.12730	0.0969700	0.075070
##	169	0.09384	0.08498	0.0929300	0.034830
##	170	0.07944	0.06376	0.0288100	0.013290
##	171	0.11580	0.12310	0.1226000	0.073400
##	172	0.10600	0.11330	0.1126000	0.064630
##	173	0.11890	0.16450	0.0936600	0.059850
##	174	0.07956	0.08259	0.0407200	0.021420
##	175	0.09048	0.06288	0.0585800	0.034380
##	176	0.09934	0.09546	0.0388900	0.023150
##	177	0.10530	0.12670	0.1323000	0.089940
##	178	0.07741	0.04768	0.0271200	0.007246
##	179	0.10990	0.16860	0.1974000	0.100900
##	180	0.08013	0.04038	0.0238300	0.017700
##	181	0.09586	0.08087	0.0418700	0.041070
##	182	0.09168	0.08424	0.0976900	0.066380
##	183	0.09198	0.06221	0.0106300	0.019170
##	184	0.08876	0.09588	0.0755000	0.040790
##	185	0.10540	0.06779	0.0050060	0.007583
## ##	186 187	0.08518 0.11410	0.04721 0.15720	0.0123600 0.1910000	0.013690
	188	0.09430	0.15720	0.1153000	0.109000 0.068470
##	189	0.08020	0.08564	0.1155000	0.000470
	190	0.09037	0.04689	0.0110300	0.014070
##	190	0.03037	0.04009	0.0110300	0.0140/0

0.09721	0.11370	0.0944700	0.059430
0.08872	0.05242	0.0260600	0.017960
0.08098	0.08549	0.0553900	0.032210
0.11390	0.15950	0.1639000	0.073640
0.09597	0.08799	0.0659300	0.051890
0.12150	0.17910	0.1937000	0.146900
0.10240	0.09769	0.1235000	0.065530
0.08974	0.08606	0.0310200	0.029570
0.10750	0.11380	0.0420100	0.031520
0.08108	0.07823	0.0683900	0.025340
0.09387	0.05131	0.0239800	0.028990
0.08801	0.05743	0.0361400	0.014040
			0.038760
			0.060210
			0.032500
			0.085200
			0.017770
			0.035150
			0.004419
			0.149600
			0.033900
			0.081230
			0.079440
			0.028640
			0.015710
			0.012900
			0.029950
			0.030580
			0.080890
			0.097020
			0.019240
			0.024020
			0.106200
			0.022330
			0.000000
			0.000000
U.1233U	0.22040	0.1188000	0.070380
	0.08872 0.08098 0.11390 0.09597 0.12150 0.10240 0.08974 0.10750 0.08108 0.09387	0.08872 0.05242 0.08098 0.08549 0.11390 0.15950 0.09597 0.08799 0.12150 0.17910 0.10240 0.09769 0.08974 0.08606 0.10750 0.11380 0.08108 0.07823 0.09387 0.05131 0.08801 0.05743 0.08515 0.10250 0.09933 0.12090 0.11500 0.07281 0.18700 0.08585 0.09968 0.05855 0.09968 0.05914 0.07376 0.03614 0.11410 0.28320 0.07818 0.09580 0.11370 0.13650 0.10710 0.18300 0.08363 0.08575 0.10070 0.10690 0.11340 0.08061 0.11250 0.11170 0.08931 0.11080 0.08439 0.11450 0.09667 0.08393 0.08785 0.05794 0.11500 0.16420	0.08872 0.05242 0.0260600 0.08098 0.08549 0.0553900 0.11390 0.15950 0.1639000 0.09597 0.08799 0.0659300 0.12150 0.17910 0.1937000 0.10240 0.09769 0.1235000 0.08974 0.08606 0.0310200 0.10750 0.11380 0.0420100 0.08108 0.07823 0.0683900 0.09387 0.05131 0.0239800 0.08801 0.05743 0.0361400 0.08515 0.10250 0.0685900 0.09933 0.12090 0.1065000 0.11500 0.07281 0.0400600 0.11830 0.18700 0.2030000 0.08508 0.05855 0.0336700 0.09968 0.05914 0.0268500 0.07376 0.03614 0.0027580 0.11410 0.28320 0.2487000 0.1370 0.13650 0.1293000 0.10710 0.18300 0.1692000 0.08363 0.08575 0.0507700 0.1070 0.10690

28	9.11330	0.14890	0.2133000	0.125900
29	0.08968	0.11980	0.1036000	0.074880
30	0.08306	0.04458	0.0009737	0.002941
31 (0.09357	0.08574	0.0716000	0.020170
32	9.08682	0.04571	0.0210900	0.020540
33	9.07837	0.22330	0.3003000	0.077980
34	9.11690	0.13190	0.1478000	0.084880
35	9.08276	0.04234	0.0199700	0.014990
36	9.11280	0.09263	0.0427900	0.031320
37	9.10440	0.19800	0.1697000	0.088780
38	9.10360	0.07632	0.0256500	0.015100
			0.0237900	0.016150
				0.030700
			0.0978900	0.052460
				0.019240
				0.005128
				0.028370
				0.097400
				0.009615
				0.005159
				0.038900
				0.005917
				0.019450
				0.061420
				0.137700
				0.027570
				0.119800
				0.066150
				0.012570
				0.029250
				0.021000
				0.028640
				0.047810
				0.033260
				0.027380
				0.080870
04	0.0/991	U.U3320	U.U2995UU	0.020700
	29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 66 57 58 59 60 61 62 63	29 0.08968 30 0.08306 31 0.09357 32 0.08682 33 0.07837 34 0.11690 35 0.08276 36 0.11280 37 0.10440 38 0.10360 39 0.09657 40 0.10700 41 0.10960 42 0.11500 43 0.07969 44 0.08662 45 0.10620 46 0.08491 47 0.08117 48 0.08837 49 0.08600 50 0.08437 51 0.09883 52 0.11090 53 0.08365 54 0.12300 55 0.12480 56 0.10440 57 0.08388 58 0.0858 59 0.0931 60 0.09779 61 0.10290 62 0.09030 </th <th>29 0.08968 0.11980 30 0.08306 0.04458 31 0.09357 0.08574 32 0.08682 0.04571 33 0.07837 0.22330 34 0.11690 0.13190 35 0.08276 0.04234 36 0.11280 0.09263 37 0.10440 0.19800 38 0.10360 0.07632 39 0.09657 0.07234 40 0.10700 0.05971 41 0.10960 0.12790 42 0.11500 0.08201 43 0.07969 0.06053 44 0.08662 0.06290 45 0.10620 0.18490 46 0.08491 0.05030 47 0.08117 0.03912 48 0.08837 0.12300 50 0.08437 0.06450 51 0.09833 0.13640 52 0.11090 0.31140 53 0.08365 0.11140 54 0.123</th> <th>29 0.08968 0.11980 0.1036000 30 0.08306 0.04458 0.0009737 31 0.09357 0.08574 0.0716000 32 0.08682 0.04571 0.0210900 33 0.07837 0.22330 0.3003000 34 0.11690 0.13190 0.1478000 35 0.08276 0.04234 0.0199700 36 0.11280 0.09263 0.0427900 37 0.10440 0.19800 0.1697000 38 0.10360 0.07632 0.0256500 39 0.09657 0.07234 0.0237900 40 0.10700 0.05971 0.0483100 41 0.10960 0.12790 0.0978900 42 0.11500 0.08201 0.0413200 43 0.07969 0.06053 0.0373500 44 0.08662 0.06290 0.0289100 45 0.10620 0.18490 0.2417000 46 0.08491 0.0503</th>	29 0.08968 0.11980 30 0.08306 0.04458 31 0.09357 0.08574 32 0.08682 0.04571 33 0.07837 0.22330 34 0.11690 0.13190 35 0.08276 0.04234 36 0.11280 0.09263 37 0.10440 0.19800 38 0.10360 0.07632 39 0.09657 0.07234 40 0.10700 0.05971 41 0.10960 0.12790 42 0.11500 0.08201 43 0.07969 0.06053 44 0.08662 0.06290 45 0.10620 0.18490 46 0.08491 0.05030 47 0.08117 0.03912 48 0.08837 0.12300 50 0.08437 0.06450 51 0.09833 0.13640 52 0.11090 0.31140 53 0.08365 0.11140 54 0.123	29 0.08968 0.11980 0.1036000 30 0.08306 0.04458 0.0009737 31 0.09357 0.08574 0.0716000 32 0.08682 0.04571 0.0210900 33 0.07837 0.22330 0.3003000 34 0.11690 0.13190 0.1478000 35 0.08276 0.04234 0.0199700 36 0.11280 0.09263 0.0427900 37 0.10440 0.19800 0.1697000 38 0.10360 0.07632 0.0256500 39 0.09657 0.07234 0.0237900 40 0.10700 0.05971 0.0483100 41 0.10960 0.12790 0.0978900 42 0.11500 0.08201 0.0413200 43 0.07969 0.06053 0.0373500 44 0.08662 0.06290 0.0289100 45 0.10620 0.18490 0.2417000 46 0.08491 0.0503

## 265	0.11970	0.14960	0.2417000	0.120300
## 266	0.12730	0.19320	0.1859000	0.093530
## 267	0.08054	0.05907	0.0577400	0.010710
## 268	0.09783	0.15310	0.0860600	0.028720
## 269	0.08192	0.05200	0.0171400	0.012610
## 270	0.10270	0.15580	0.2049000	0.088860
## 271	0.08044	0.08895	0.0739000	0.040830
## 272	0.09740	0.24580	0.2065000	0.111800
## 273	0.08045	0.05361	0.0268100	0.032510
## 274	0.09172	0.06829	0.0337200	0.022720
## 275	0.08523	0.14280	0.1114000	0.067720
## 276	0.11420	0.15160	0.3201000	0.159500
## 277	0.09587	0.08345	0.0682400	0.049510
## 278	0.08455	0.10230	0.0925100	0.053020
## 279	0.07431	0.04227	0.0000000	0.000000
## 280	0.08098	0.04878	0.0000000	0.000000
## 281	0.10650	0.21460	0.1684000	0.108000
## 282	0.08511	0.04413	0.0050670	0.005664
## 283	0.08386	0.05794	0.0075100	0.008488
## 284	0.09423	0.06630	0.0470500	0.037310
## 285	0.09726	0.08995	0.0906100	0.065270
## 286	0.08641	0.06698	0.0519200	0.027910
## 287	0.09463	0.13060	0.1115000	0.064620
## 288	0.10370	0.13100	0.1411000	0.094310
## 289	0.10070	0.16060	0.2712000	0.131000
## 290	0.10760	0.13340	0.0801700	0.050740
## 291	0.08123	0.04971	0.0000000	0.000000
## 292	0.08302	0.06374	0.0255600	0.020310
## 293	0.12000	0.12670	0.1385000	0.065260
## 294	0.09231	0.07175	0.0439200	0.020270
## 295 ## 296	0.10630	0.19540	0.2448000	0.150100
	0.10300	0.21060	0.2310000	0.147100
## 297 ## 298	0.10460	0.17390 0.10270	0.2085000 0.1479000	0.132200
## 298 ## 299	0.09831 0.11000	0.10270	0.1479000	0.094980 0.027980
## 299 ## 300	0.10260	0.18930	0.2236000	0.027980
## 300 ## 301	0.08694	0.11850	0.1193000	0.091940
## JUI	0.00034	0.11000	0.1193000	0.090070

##	302	0.06576	0.05220	0.0247500	0.013740
##	303	0.07515	0.03718	0.0030900	0.006588
##	304	0.11060	0.14690	0.1445000	0.081720
##	305	0.10250	0.12040	0.1147000	0.064620
##	306	0.09159	0.10740	0.1554000	0.083400
##	307	0.10480	0.20870	0.2550000	0.094290
##	308	0.09879	0.08836	0.0329600	0.023900
##	309	0.08138	0.11670	0.0905000	0.035620
##	310	0.10510	0.11920	0.0786000	0.044510
		0.09156	0.13130	0.1523000	0.101500
##	312	0.10080	0.10410	0.1266000	0.083530
	313	0.09950	0.07957	0.0454800	0.031600
##	314	0.12250	0.07210	0.0592900	0.074040
##		0.10410	0.14360	0.0984700	0.061580
##		0.07517	0.04726	0.0127100	0.011170
##		0.10030	0.13280	0.1980000	0.104300
		0.09509	0.16820	0.1950000	0.123700
		0.09566	0.08194	0.0482400	0.022570
	0_0	0.08875	0.07780	0.0460800	0.035280
	321	0.09514	0.15110	0.1544000	0.048460
	322	0.09610	0.13360	0.1348000	0.060180
	323	0.09078	0.13130	0.1465000	0.086830
	324	0.09768	0.07849	0.0332800	0.020080
	325	0.07926	0.03393	0.0105300	0.011080
	326	0.09874	0.10530	0.1335000	0.087950
		0.09070	0.06945	0.0146200	0.018960
		0.11550	0.17520	0.2133000	0.094790
##		0.11350	0.07589	0.0313600	0.026450
##	330	0.10690	0.12830	0.2308000	0.141000
##	331	0.09250	0.04102	0.0000000	0.000000
##	332	0.09136	0.07883	0.0179700	0.020900
		0.09594	0.05736	0.0253100	0.016980
		0.07734	0.03212	0.0112300	0.005051
		0.11670	0.13050	0.1539000	0.086240
	336	0.08182	0.06230	0.0589200	0.031570
	337 338	0.07436	0.02650	0.0011940	0.005449 0.043750
##	230	0.10660	0.14130	0.3130000	0.043/30

##	339	0.09116	0.14020	0.1060000	0.060900
##	340	0.10430	0.12990	0.1191000	0.062110
##	341	0.09495	0.08501	0.0550000	0.045280
##	342	0.09029	0.12060	0.1468000	0.082710
##	343	0.11650	0.12830	0.1799000	0.079810
##	344	0.09592	0.13250	0.1548000	0.028540
##	345	0.10080	0.12840	0.1043000	0.056130
##	346	0.10370	0.08404	0.0433400	0.017780
##	347	0.08293	0.07698	0.0472100	0.023810
##	348	0.10920	0.09486	0.0203100	0.018610
##		0.09215	0.08597	0.0748600	0.043350
##		0.10300	0.09218	0.0544100	0.042740
##		0.07966	0.05581	0.0208700	0.026520
##		0.09847	0.11570	0.0987500	0.079530
##		0.08123	0.05824	0.0619500	0.023430
##		0.08759	0.06575	0.0513300	0.018990
##		0.11720	0.14790	0.1267000	0.090290
##		0.10440	0.07773	0.0217200	0.015040
##		0.10890	0.07232	0.0175600	0.019520
	358	0.08871	0.06900	0.0266900	0.013930
	359	0.09463	0.10900	0.1127000	0.074000
	360	0.09240	0.05605	0.0399600	0.012820
	361	0.08355	0.08348	0.0904200	0.060220
	362	0.08401	0.10020	0.0993800	0.053640
##		0.07699	0.03398	0.0000000	0.000000
##		0.09996	0.07542	0.0192300	0.019680
##		0.10450	0.07057	0.0249000	0.029410
##		0.09984	0.11200	0.0673700	0.025940
##		0.11150	0.16650	0.1855000	0.105400
##		0.07984	0.04626	0.0154100	0.010430
##		0.08597	0.05969	0.0136700	0.008907
##		0.10350	0.11880	0.1379000	0.085910
##	_	0.11580	0.10850	0.0592800	0.032790
##		0.07721	0.08751	0.0598800	0.021800
	373	0.08313	0.04202	0.0077560	0.008535
	374 375	0.09087	0.07838	0.0291600 0.0296600	0.015270 0.022720
##	3/3	0.08583	0.05430	0.0290000	0.022/20

##	376	0.07372	0.04043	0.0071730	0.011490
##	377	0.08275	0.07214	0.0410500	0.030270
##	378	0.10420	0.12970	0.0589200	0.028800
##	379	0.09379	0.03872	0.0014870	0.003333
##	380	0.10130	0.07808	0.0432800	0.029290
##	381	0.08684	0.06330	0.0134200	0.022930
##	382	0.10150	0.06797	0.0249500	0.018750
	383	0.09444	0.09947	0.1204000	0.049380
	384	0.10400	0.15590	0.1354000	0.077520
	385	0.10490	0.08499	0.0430200	0.025940
	386	0.08877	0.08066	0.0435800	0.024380
	387	0.09401	0.19610	0.2195000	0.108800
	388	0.10680	0.06678	0.0229700	0.017800
	389	0.09488	0.08511	0.0862500	0.044890
	390	0.09427	0.06712	0.0552600	0.045630
	391	0.09997	0.13140	0.1698000	0.082930
	392	0.07449	0.03558	0.0000000	0.000000
	393	0.07685	0.06059	0.0185700	0.017230
	394	0.10200	0.14530	0.1921000	0.096640
	395	0.09277	0.07255	0.0175200	0.018800
	396	0.07026	0.04831	0.0204500	0.008507
	397	0.10880	0.11680	0.0709700	0.044970
	398	0.09200	0.10360	0.1122000	0.074830
	399	0.09797	0.13390	0.1863000	0.110300
	400	0.10240	0.05301	0.0068290	0.007937
	401	0.09492	0.08419	0.0233000	0.024160
	402	0.07115	0.07325	0.0809200	0.028000
	403	0.09401	0.17190	0.1657000	0.075930
	404	0.09446	0.10760	0.1527000	0.089410
	405	0.08284	0.12230	0.1010000	0.028330
	406 407	0.09150	0.11310	0.0979900	0.077850
		0.09880	0.14380	0.0665100	0.053970
	408 409	0.09373	0.06685 0.16490	0.0351200 0.1690000	0.026230
	410	0.11620 0.08464	0.16490	0.0165200	0.089230 0.016670
	411	0.08760	0.13460	0.1374000	0.039800
	411	0.06883	0.03813	0.0163300	0.003125
77.77	714	0.00003	0.03013	0.0103300	0.003123

##	413	0.07793	0.05139	0.0225100	0.007875
##	414	0.10510	0.06095	0.0359200	0.026000
##	415	0.07813	0.04340	0.0224500	0.027630
##	416	0.10890	0.14480	0.2256000	0.119400
##	417	0.09639	0.06889	0.0350300	0.028750
##	418	0.09751	0.11390	0.0800700	0.042230
##	419	0.09905	0.16690	0.1641000	0.126500
##	420	0.10910	0.17000	0.1659000	0.074150
##	421	0.10720	0.15990	0.4108000	0.078570
##	422	0.09056	0.07081	0.0525300	0.033340
##	423	0.09754	0.05113	0.0198200	0.017860
##	424	0.16340	0.22390	0.0973000	0.052520
	425	0.09059	0.08155	0.0618100	0.023610
	426	0.11220	0.12620	0.1128000	0.068730
	427	0.11580	0.12060	0.0117100	0.017870
	428	0.08924	0.07074	0.0334600	0.028770
	429	0.10030	0.07504	0.0050250	0.011160
	430	0.13350	0.22840	0.2448000	0.124200
	431	0.09258	0.07862	0.0528500	0.030850
	432	0.10680	0.12480	0.1569000	0.094510
	433	0.09723	0.07165	0.0415100	0.018630
	434	0.10120	0.13170	0.1491000	0.091830
	435	0.08915	0.11130	0.0945700	0.036130
	436	0.09309	0.05306	0.0176500	0.027330
	437	0.08923	0.05884	0.0802000	0.058430
	438	0.07941	0.05366	0.0387300	0.023770
	439	0.09752	0.05272	0.0206100	0.007799
	440	0.10890	0.11410	0.0684300	0.037380
	441	0.09579	0.11250	0.0710700	0.029500
##	442	0.09246	0.06747	0.0297400	0.024430
##	443	0.10390	0.15530	0.1700000	0.088150
##	444	0.10710	0.11550	0.0578600	0.052660
##	445	0.09812	0.12980	0.1417000	0.088110
		0.10240	0.06492	0.0295600	0.020760
	447	0.08043	0.06807	0.0469700	0.023440
	448	0.07683	0.03892	0.0015460	0.005592
##	449	0.09363	0.11540	0.0663600	0.031420

##	450	0.09898	0.11100	0.1007000	0.064310
##	451	0.10530	0.07722	0.0066430	0.012160
##	452	0.10340	0.13530	0.1085000	0.045620
##	453	0.10100	0.13180	0.1856000	0.102100
##	454	0.06613	0.10640	0.0877700	0.023860
##	455	0.09773	0.08120	0.0255500	0.021790
##	456	0.09970	0.10210	0.0848700	0.055320
##	457	0.12910	0.10470	0.0687700	0.065560
	458	0.09469	0.11430	0.1367000	0.086460
	459	0.09138	0.04276	0.0000000	0.000000
	460	0.06251	0.01938	0.0015950	0.001852
	461	0.10840	0.19880	0.3635000	0.168900
##		0.10180	0.13890	0.1594000	0.087440
##		0.07987	0.07079	0.0354600	0.020740
##		0.08817	0.06718	0.0105500	0.009937
##		0.11860	0.22760	0.2229000	0.140100
##		0.10540	0.13160	0.0774100	0.027990
	467	0.08511	0.05251	0.0014610	0.003261
	468	0.08947	0.12320	0.1090000	0.062540
	469	0.10610	0.11110	0.0672600	0.039650
	470	0.08458	0.05895	0.0353400	0.029440
	471	0.08749	0.06601	0.0311200	0.028640
	472	0.08421	0.05352	0.0194700	0.019390
	473	0.08983	0.03766	0.0256200	0.029230
	474	0.08420	0.11300	0.1145000	0.066370
	475	0.08752	0.06000	0.0236700	0.023770
	476	0.09746	0.11170	0.1130000	0.079500
	477	0.06935	0.10730	0.0794300	0.029780
##		0.09684	0.11750	0.1572000	0.115500
##		0.08992	0.09823	0.0594000	0.048190
##		0.11620	0.16810	0.1357000	0.067590
	481	0.11010	0.10990	0.0884200	0.057780
	482	0.09752	0.11410	0.0938800	0.058390
	483	0.10640	0.18870	0.2319000	0.124400
	484	0.09699	0.12940	0.1307000	0.037160
	485 486	0.07561 0.12430	0.03630 0.23640	0.0083060 0.2914000	0.011620 0.124200
##	400	U.1243U	0.23040	0.2914000	0.124200

##	487	0.08946	0.06258	0.0294800	0.015140
##	488	0.13260	0.27680	0.4264000	0.182300
##	489	0.07335	0.05275	0.0180000	0.012560
##	490	0.12160	0.21540	0.1689000	0.063670
##	491	0.10010	0.12890	0.1170000	0.077620
##	492	0.11780	0.27700	0.3514000	0.152000
##	493	0.12570	0.15550	0.2032000	0.109700
##	494	0.09687	0.09752	0.0526300	0.027880
##	495	0.12430	0.08963	0.0300000	0.009259
##	496	0.12180	0.16610	0.0482500	0.053030
##	497	0.10050	0.09697	0.0615400	0.030290
	498	0.09714	0.10470	0.0825900	0.052520
##	499	0.09260	0.20630	0.1784000	0.114400
##		0.10630	0.16390	0.1751000	0.083990
##		0.07497	0.07112	0.0364900	0.023070
##		0.08206	0.06669	0.0329900	0.033230
##		0.11700	0.20220	0.1722000	0.102800
	504	0.09073	0.16600	0.2280000	0.059410
	505	0.11750	0.14830	0.1020000	0.055640
	506	0.07780	0.03574	0.0049670	0.006434
	507	0.06429	0.02675	0.0072500	0.006250
	508	0.08472	0.05016	0.0341600	0.025410
	509	0.10990	0.22360	0.3174000	0.147400
	510	0.11200	0.15710	0.1522000	0.084810
	511	0.10750	0.12700	0.0456800	0.031100
	512	0.08855	0.07027	0.0569900	0.047440
	513	0.11090	0.15160	0.1218000	0.051820
	514	0.09646	0.08711	0.0388800	0.025630
##		0.09742	0.14970	0.1811000	0.087730
##		0.10880	0.17990	0.1695000	0.068610
##		0.08474	0.07864	0.0869000	0.070170
##		0.10960	0.15990	0.1974000	0.127900
##		0.11480	0.14850	0.1772000	0.106000
##		0.10020	0.14830	0.0870500	0.051020
	521	0.09816	0.10130	0.0633500	0.022180
##	522 523	0.09965	0.10580 0.04605	0.0800500 0.0468600	0.038210 0.027390
##	. 323	0.08320	0.04003	0.0400000	0.02/390

## 5	24	0.05263	0.04362	0.0000000	0.000000
## 5	25	0.11700	0.07568	0.0000000	0.000000
## 5	26	0.09425	0.06219	0.0390000	0.016150
## 5	27	0.07903	0.07529	0.0543800	0.020360
## 5	28	0.08402	0.06722	0.0729300	0.055960
## 5	29	0.08713	0.05008	0.0239900	0.021730
## 5	30	0.08311	0.05428	0.0147900	0.005769
## 5	31	0.08605	0.10110	0.0657400	0.037910
## 5	32	0.08668	0.11990	0.0925200	0.013640
	33	0.07896	0.04522	0.0140200	0.018350
	34	0.09831	0.15560	0.1793000	0.088660
	35	0.10150	0.15890	0.2545000	0.114900
	36	0.09040	0.08269	0.0583500	0.030780
	37	0.09524	0.05473	0.0303600	0.022780
	38	0.08814	0.05253	0.0158300	0.011480
	39	0.09578	0.10180	0.0368800	0.023690
	40	0.08983	0.07525	0.0419600	0.033500
## 5		0.08772	0.07304	0.0695000	0.053900
## 5		0.13710	0.12250	0.0333200	0.024210
## 5		0.08393	0.04216	0.0018600	0.002924
## 5		0.11700	0.18750	0.2565000	0.150400
## 5		0.12860	0.34540	0.3754000	0.160400
## 5		0.10050	0.07943	0.0615500	0.033700
## 5		0.09462	0.12430	0.0926300	0.023080
## 5		0.09676	0.07952	0.0268800	0.017810
## 5		0.09929	0.11260	0.0446200	0.043040
	50	0.10310	0.09092	0.0659200	0.027490
## 5.		0.07551	0.08316	0.0612600	0.018670
	52	0.07274	0.06064	0.0450500	0.014710
	53	0.11860	0.23960	0.2273000	0.085430
	54	0.10730	0.09713	0.0528200	0.044400
	55	0.08791	0.05205	0.0277200	0.020680
	56 57	0.11670 0.09345	0.20870 0.05991	0.2810000 0.0263800	0.156200
	5 <i>1</i> 58	0.10310	0.18360	0.1450000	0.020690 0.063000
	50 59	0.10060	0.05743	0.0236300	0.025830
## 5		0.09179	0.08890	0.0406900	0.023630
ππ	00	0.031/3	0.00090	0.0400300	0.022000

## 561	0.09823	0.1098	20 0	.1319000	0.055980	
## 561	0.08673	0.0654		.0199400	0.016920	
## 563						
	0.06995	0.0522		.0347600	0.017370	
## 564	0.11340	0.0883		.0380000	0.034000	
## 565	0.07466	0.0599		.0485900	0.028700	
## 566	0.09882	0.091		.0358100	0.020370	
## 567	0.09057	0.1052		.0537500	0.032630	
## 568	0.10990	0.092		.0689500	0.064950	
## 569	0.10010	0.151		.1932000	0.125500	
##	symmetry_mean dimens	_	_	_	· —	_
## 1	0.1959	0.05955	0.2360	0.6656	1.6700	17.430
## 2	0.1922	0.06491	0.4505	1.1970	3.4300	27.100
## 3	0.1714	0.06340	0.1967	1.3870	1.3420	13.540
## 4	0.1771	0.06072	0.3384	1.3430	1.8510	26.330
## 5	0.1721	0.05544	0.1783	0.4125	1.3380	17.720
## 6	0.2031	0.06267	0.2864	1.4400	2.2060	20.300
## 7	0.1388	0.06570	0.2388	2.9040	1.9360	16.970
## 8	0.2251	0.07421	0.5648	1.9300	3.9090	52.720
## 9	0.2217	0.06481	0.3550	1.5340	2.3020	23.130
## 10	0.1776	0.06907	0.1601	0.8225	1.3550	10.800
## 11	0.1848	0.06222	0.5904	1.2160	4.2060	75.090
## 12	0.1970	0.06228	0.2200	0.9823	1.4840	16.510
## 13	0.1562	0.06020	0.3152	0.7884	2.3120	27.400
## 14	0.1819	0.05501	0.4040	1.2140	2.5950	32.960
## 15	0.1663	0.05391	0.4674	1.3750	2.9160	56.180
## 16	0.1454	0.06147	0.2254	1.1080	2.2240	19.540
## 17	0.1816	0.05723	0.3117	0.8155	1.9720	27.940
## 18	0.1707	0.05984	0.2100	0.9505	1.5660	17.610
## 19	0.2249	0.07469	1.0720	1.7430	7.8040	130.800
## 20	0.1880	0.06471	0.2005	0.8163	1.9730	15.240
## 21	0.1516	0.06095	0.2451	0.7655	1.7420	17.860
## 22	0.2131	0.07405	0.2957	1.9780	2.1580	20.950
## 23	0.1486	0.06615	0.3796	1.7430	3.0180	25.780
## 24	0.2001	0.06467	0.4309	1.0680	2.7960	39.840
## 25	0.1922	0.07782	0.3336	1.8600	2.0410	19.910
## 26	0.1662	0.06566	0.2787	0.6205	1.9570	23.350
## 27	0.1638	0.05710	0.2950	1.3730	2.0990	25.220

##	28	0.1926	0.06540	0.4390	1.0120	3.4980	43.500
##	29	0.2036	0.07125	0.1844	0.9429	1.4290	12.070
##	30	0.1650	0.05701	0.1584	0.6124	1.0360	13.220
##	31	0.1453	0.05518	0.3975	0.8285	2.5670	33.010
##	32	0.1585	0.06065	0.2367	1.3800	1.4570	19.870
##	33	0.1696	0.07369	0.9289	1.4650	5.8010	104.900
##	34	0.1966	0.05597	0.3342	1.7810	2.0790	25.790
##	35	0.1739	0.05640	0.4165	0.6237	2.5610	37.110
##	36	0.1792	0.05897	0.1402	0.5417	1.1010	11.350
##	37	0.1582	0.05461	0.7888	0.7975	5.4860	96.050
##	38	0.1995	0.07839	0.3962	0.6538	3.0210	25.030
##	39	0.1893	0.05534	0.5990	1.3910	4.1290	67.340
##	40	0.1876	0.06684	0.2873	0.9173	2.4640	28.090
##	41	0.1814	0.05572	0.3977	1.0330	2.5870	52.340
##	42	0.2027	0.06082	0.7364	1.0480	4.7920	97.070
##	43	0.2597	0.09744	0.4956	1.1560	3.4450	27.230
##	44	0.1652	0.07238	0.1814	0.6412	0.9219	14.410
##	45	0.1813	0.05536	0.1555	0.5762	1.3920	14.030
##	46	0.1770	0.05340	0.6362	1.3050	4.3120	76.360
##	47	0.1511	0.06148	0.1415	0.9671	0.9680	9.704
##	48	0.1956	0.06121	0.9948	0.8509	7.2220	153.100
##		0.1806	0.06079	0.2136	1.3320	1.5130	19.290
##	50	0.1781	0.06249	0.3642	1.0400	2.5790	28.320
##		0.2106	0.06916	0.2563	1.1940	1.9330	22.690
##		0.1881	0.05907	0.2318	0.4966	2.2760	19.880
##		0.1847	0.06019	0.3438	1.1400	2.2250	25.060
##		0.1342	0.06129	0.3354	2.3240	2.1050	29.960
##		0.2200	0.06229	0.5539	1.5600	4.6670	83.160
##		0.1942	0.06902	0.2860	1.0160	1.5350	12.960
##		0.1499	0.06758	0.1924	0.6417	1.3450	13.040
##		0.1703	0.06048	0.4245	1.2680	2.6800	26.430
##		0.2655	0.06877	1.5090	3.1200	9.8070	233.000
##		0.1893	0.05892	0.4709	0.9951	2.9030	53.160
##		0.2310	0.06343	0.9811	1.6660	8.8300	104.900
##		0.1538	0.06365	1.0880	1.4100		122.300
##		0.1308	0.05866	0.5296	1.6670	3.7670	58.530
##	64	0.1784	0.05587	0.2385	0.8265	1.5720	20.530

## 65	0.2521	0.07032	0.4388	0.7096	3.3840	44.910
## 66	0.1551	0.06761	0.2949	1.6560	1.9550	21.550
## 67	0.1496	0.05674	0.2927	0.8907	2.0440	24.680
## 68	0.1632	0.05255	0.3160	0.9115	1.9540	28.900
## 69	0.2110	0.05853	0.2479	0.9195	1.8300	19.410
## 70	0.1859	0.06461	0.2067	0.8745	1.3930	15.340
## 71	0.1720	0.06419	0.2130	0.5914	1.5450	18.520
## 72	0.1890	0.06331	0.2619	2.0150	1.7780	16.850
## 73	0.2330	0.08743	0.4653	1.9110	3.7690	24.200
## 74	0.1220	0.05243	0.4834	1.0460	3.1630	50.950
## 75	0.1844	0.05268	0.4789	2.0600	3.4790	46.610
## 76	0.1930	0.06404	0.2978	1.5020	2.2030	20.950
## 77	0.1621	0.05425	0.2577	0.4757	1.8170	28.920
## 78	0.1516	0.05667	0.2727	0.9429	1.8310	18.150
## 79	0.1601	0.06140	0.3265	0.6594	2.3460	25.180
## 80	0.1992	0.06069	0.4537	0.8733	3.0610	49.810
## 81	0.1780	0.05650	0.2713	1.2170	1.8930	24.280
## 82	0.1667	0.05474	0.2382	0.8355	1.6870	18.320
## 83	0.1815	0.05696	0.2621	1.5390	2.0280	20.980
## 84	0.2116	0.06346	0.5115	0.7372	3.8140	42.760
## 85	0.2018	0.06914	0.2562	0.9858	1.8090	16.040
## 86	0.1337	0.05581	0.1532	0.4690	1.1150	12.680
## 87	0.1689	0.05808	0.1166	0.4957	0.7714	8.955
## 88	0.1375	0.06016	0.3408	1.9240	2.2870	28.930
## 89	0.1769	0.05278	0.6917	1.1270	4.3030	93.990
## 90	0.1714	0.06843	0.3191	1.2490	2.2840	26.450
## 91	0.1466	0.06133	0.2889	0.9899	1.7780	21.790
## 92	0.1526	0.06046	0.1532	0.7810	1.2530	11.910
## 93	0.1547	0.05443	0.2298	0.9988	1.5340	22.180
## 94	0.1667	0.05449	0.2621	1.2320	1.6570	21.190
## 95	0.2384	0.07542	0.2860	2.1100	2.1120	31.720
## 96	0.1782	0.05976	0.3371	0.7476	2.6290	33.270
## 97	0.1874	0.05899	0.2357	1.2990	2.3970	20.210
## 98	0.1875	0.05715	0.2070	1.2380	1.2340	13.880
## 99	0.1910	0.06908	0.2467	1.2170	1.6410	15.050
## 100	0.1829	0.06782	0.8973	1.4740	7.3820	120.000
## 101	0.1668	0.06862	0.3198	1.4890	2.2300	20.740

##	102	0.1653	0.06447	0.3539	4.8850	2.2300	21.690
##	103	0.1769	0.06270	0.1904	0.5293	1.1640	13.170
##	104	0.1586	0.05922	0.4727	1.2400	3.1950	45.400
##	105	0.1487	0.05635	0.1630	1.6010	0.8730	13.560
##	106	0.1779	0.06574	0.2034	1.1660	1.5670	14.340
##	107	0.1533	0.06184	0.3602	1.4780	3.2120	27.490
##	108	0.2124	0.06894	0.1811	0.7959	0.9857	12.580
##	109	0.1976	0.06328	0.5196	1.9180	3.5640	33.000
##	110	0.1615	0.06144	0.2865	1.6780	1.9680	18.990
##	111	0.1801	0.06520	0.3060	1.6570	2.1550	20.620
##	112	0.2222	0.08261	0.1935	1.9620	1.2430	10.210
##	113	0.1966	0.06213	0.7128	1.5810	4.8950	90.470
##	114	0.2069	0.07682	0.2121	1.1690	2.0610	19.210
##	115	0.1495	0.05888	0.4062	1.2100	2.6350	28.470
##	116	0.1467	0.05407	0.5100	1.6790	3.2830	58.380
##	117	0.1950	0.06466	0.2092	0.6509	1.4460	19.420
##	118	0.1929	0.06744	0.6470	1.3310	4.6750	66.910
##	119	0.2094	0.05581	0.9553	1.1860	6.4870	124.400
##	120	0.2035	0.06501	0.3106	1.5100	2.5900	21.570
	121	0.1614	0.05890	0.2185	0.8561	1.4950	17.910
##	122	0.1765	0.05024	0.8601	1.4800	7.0290	111.700
##	123	0.1935	0.05878	0.2512	1.7860	1.9610	18.210
##	124	0.1717	0.05054	1.2070	1.0510	7.7330	224.100
##	125	0.1634	0.06372	0.1707	0.7615	1.0900	12.250
##	126	0.1411	0.06243	0.3278	1.0590	2.4750	22.930
##	127	0.1925	0.07692	0.3908	0.9238	2.4100	34.660
	128	0.1627	0.05416	0.4157	1.6270	2.9140	33.010
	129	0.1946	0.05044	0.6896	1.3420	5.2160	81.230
	130	0.1926	0.05982	0.2027	1.8510	1.8950	18.540
	131	0.2041	0.06898	0.2530	0.8749	3.4660	24.190
	132	0.1848	0.06181	0.2244	0.8950	1.8040	19.360
	133	0.1628	0.05781	0.2351	1.5970	1.5390	17.850
	134	0.1726	0.05623	1.1760	1.2560		
	135	0.1954	0.07976	0.1779	1.0300	1.3180	12.300
	136	0.1995	0.06330	0.8068	0.9017		102.600
	137	0.1985	0.07098	0.5169	2.0790	3.1670	28.850
##	138	0.1590	0.05907	0.1822	0.7285	1.1710	13.250

##	139	0.1727	0.06071	0.8161	2.1290	6.0760	87.170
##	140	0.1868	0.06110	0.2273	0.6329	1.5200	17.470
##	141	0.1697	0.05699	0.8529	1.8490	5.6320	93.540
##	142	0.2419	0.07871	1.0950	0.9053	8.5890	153.400
##	143	0.1752	0.05533	0.7655	2.4630	5.2030	99.040
##	144	0.1949	0.07292	0.7036	1.2680	5.3730	60.780
##	145	0.2252	0.06924	0.2545	0.9832	2.1100	21.050
##	146	0.1718	0.05780	0.1859	1.9260	1.0110	14.470
##	147	0.1842	0.06082	0.5058	0.9849	3.5640	54.160
##	148	0.1495	0.05593	0.3389	1.4390	2.3440	33.580
##	149	0.1472	0.05561	0.3778	2.2000	2.4870	31.160
##	150	0.1602	0.06066	0.1199	0.8944	0.8484	9.227
##	151	0.1215	0.05673	0.1716	0.7151	1.0470	12.690
##	152	0.2538	0.07029	0.6965	1.7470	4.6070	43.520
##	153	0.1778	0.06235	0.2143	0.7712	1.6890	16.640
##	154	0.1885	0.06201	0.2104	0.9670	1.3560	12.970
##	155	0.1714	0.07192	0.8811	1.7700	4.3600	77.110
##	156	0.1506	0.06959	0.5079	1.2470	3.2670	30.480
##	157	0.1573	0.05520	0.2580	1.1660	1.6830	22.220
##	158	0.1895	0.06870	0.2366	1.4280	1.8220	16.970
	159	0.2372	0.05768	0.1818	2.5420	1.2770	13.120
	160	0.1809	0.05718	0.2338	1.3530	1.7350	20.200
	161	0.1386	0.05318	0.4057	1.1530	2.7010	36.350
	162	0.2595	0.06233	0.4866	1.9050	2.8770	34.680
	163	0.1424	0.05883	0.2543	1.3630	1.7370	20.740
	164	0.1788	0.06833	0.1746	1.3050	1.1440	9.789
	165	0.1505	0.05484	1.2910	0.7452	9.6350	180.200
	166	0.1800	0.05770	0.8361	1.4810	5.8200	128.700
	167	0.2075	0.05448	0.5220	0.8121	3.7630	48.290
	168	0.2108	0.05464	0.8348	1.6330	6.1460	90.940
	169	0.1822	0.06207	0.2710	0.7927	1.8190	22.790
	170	0.1473	0.05580	0.2500	0.7574	1.5730	21.470
	171	0.2128	0.06777	0.2871	0.8937	1.8970	24.250
	172	0.1669	0.06544	0.2208	0.9533	1.6020	18.850
	173	0.2196	0.07451	0.5835	1.3770	3.8560	50.960
	174	0.1635	0.05859	0.3380	1.9160	2.5910	26.760
##	175	0.1598	0.05671	0.4697	1.1470	3.1420	43.400

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## 176	0.1718	0.05997	0.2655	1.0950	1.7780 20.350
## 177	0.1917	0.05961	0.7275	1.1930	4.8370 102.500
## 178	0.1535	0.06214	0.1855	0.6881	1.2630 12.980
## 179	0.1907	0.06049	0.6289	0.6633	4.2930 71.560
## 180	0.1739	0.05677	0.1924	1.5710	1.1830 14.680
## 181	0.1979	0.06013	0.3534	1.3260	2.3080 27.240
## 182	0.1798	0.05391	0.7474	1.0160	5.0290 79.250
## 183	0.1592	0.05912	0.2191	0.6946	1.4790 17.740
## 184	0.1594	0.05986	0.2711	0.3621	1.9740 26.440
## 185	0.1940	0.06028	0.2976	1.9660	1.9590 19.620
## 186	0.1449	0.06031	0.1753	1.0270	1.2670 11.090
## 187	0.2131	0.06325	0.2959	0.6790	2.1530 31.980
## 188	0.1692	0.05727	0.5959	1.2020	3.7660 68.350
## 189	0.1928	0.05096	0.5925	0.6863	3.8680 74.850
## 190	0.2081	0.06312	0.2684	1.4090	1.7500 16.390
## 191	0.1861	0.06248	0.7049	1.3320	4.5330 74.080
## 192	0.1601	0.05541	0.2522	1.0450	1.6490 18.950
## 193	0.1687	0.05669	0.2446	0.4334	1.8260 23.310
## 194	0.2303	0.07077	0.3700	1.0330	2.8790 32.550
## 195	0.1618	0.05549	0.3699	1.1500	2.4060 40.980
## 196	0.1634	0.07224	0.5190	2.9100	5.8010 67.100
## 197	0.1647	0.06464	0.6534	1.5060	4.1740 63.370
## 198	0.1685	0.05866	0.3721	1.1110	2.2790 33.760
## 199	0.1723	0.06317	0.1998	0.6068	1.4430 16.070
## 200	0.1646	0.06154	0.2666	0.8309	2.0970 19.960
## 201	0.1565	0.05504	1.2140	2.1880	8.0770 106.000
## 202	0.2016	0.05977	0.3077	1.6210	2.2400 20.200
## 203	0.1944	0.05913	0.3186	1.3360	2.3100 28.510
## 204	0.1735	0.07070	0.3424	1.8030	2.7110 20.480
## 205	0.2009	0.06506	0.3446	0.7395	2.3550 24.530
## 206	0.1807	0.07083	0.3331	1.9610	2.9370 32.520
## 207	0.1516	0.05859	0.1816	0.7656	1.3030 12.890
## 208	0.1619	0.06287	0.6450	2.1050	4.1380 49.110
## 209	0.1365	0.05335	0.2244	0.6864	1.5090 20.390
## 210	0.2395	0.07398	0.6298	0.7629	4.4140 81.460
## 211	0.1432	0.05935	0.2913	1.3890	2.3470 23.290
## 212	0.2027	0.06758	0.4226	1.1500	2.7350 40.090

## 213	0.1927	0.06487	0.5907	1.0410	3.7050	69.470
## 214	0.1617	0.05594	0.1833	0.5308	1.5920	15.260
## 215	0.1861	0.06837	0.1482	0.5380	1.3010	9.597
## 216	0.2743	0.06960	0.5158	1.4410	3.3120	34.620
## 217	0.2120	0.06623	0.3834	1.0030	2.4950	28.620
## 218	0.1506	0.06009	0.3478	1.0180	2.7490	31.010
## 219	0.2087	0.07613	0.3345	0.8902	2.2170	27.190
## 220	0.1801	0.05553	0.6642	0.8561	4.6030	97.850
## 221	0.1638	0.06100	0.1807	0.6931	1.3400	13.380
## 222	0.1583	0.06275	0.2253	0.6457	1.5270	17.370
## 223	0.1792	0.06552	1.1110	1.1610	7.2370	133.000
## 224	0.1842	0.07005	0.3251	2.1740	2.0770	24.620
## 225	0.1928	0.05975	0.3309	1.9250	2.1550	21.980
## 226	0.2163	0.07359	0.3368	2.7770	2.2220	17.810
## 227	0.2057	0.09575	0.2744	1.3900	1.7870	17.670
## 228	0.1724	0.06053	0.4331	1.0010	3.0080	52.490
## 229	0.1506	0.05491	0.3971	0.8282	3.0880	40.730
## 230	0.1773	0.06081	0.2144	0.9961	1.5290	15.070
## 231	0.1799	0.06166	0.3135	2.4260	2.1500	23.130
## 232	0.1571	0.05708	0.3833	0.9078	2.6020	30.150
## 233	0.1704	0.07769	0.3628	1.4900	3.3990	29.250
## 234	0.1948	0.06277	0.4375	1.2320	3.2700	44.410
## 235	0.1539	0.05637	0.2409	1.3670	1.4770	18.760
## 236	0.1853	0.06401	0.3713	1.1540	2.5540	27.570
## 237	0.1737	0.06672	0.2796	0.9622	3.5910	25.200
## 238	0.1678	0.07126	0.1267	0.6793	1.0690	7.254
## 239	0.1897	0.06329	0.2497	1.4930	1.4970	16.640
## 240	0.1737	0.06440	0.3719	2.6120	2.5170	23.220
## 241	0.1908	0.06130	0.4250	0.8098	2.5630	35.740
## 242	0.1649	0.07633	0.1665	0.5864	1.3540	8.966
## 243	0.1274	0.06724	0.1186	1.1820	1.1740	6.802
## 244	0.1564	0.05307	0.4007	1.3170	2.5770	44.410
## 245	0.1733	0.06697	0.7661	0.7800	4.1150	92.810
## 246	0.1580	0.06235	0.2957	1.3630	2.0540	18.240
## 247	0.1630	0.06439	0.1851	1.3410	1.1840	11.600
## 248	0.1872	0.06341	0.2542	1.0790	2.6150	23.110
## 249	0.1769	0.06503	0.1563	0.9567	1.0940	8.205

"" 252	0 1615	0.00104	0 1010	1 7050	1 5160 12 060
## 250	0.1615	0.06104	0.1912	1.7050	1.5160 13.860
## 251	0.1668	0.06869	0.3720	0.8423	2.3040 34.840
## 252	0.2495	0.08104	1.2920	2.4540	10.1200 138.500
## 253	0.1810	0.07252	0.3305	1.0670	2.5690 22.970
## 254	0.2113	0.07115	0.4030	0.7747	3.1230 41.510
## 255	0.1976	0.06457	0.5461	2.6350	4.0910 44.740
## 256	0.2025	0.06601	0.4302	2.8780	2.7590 25.170
## 257	0.1473	0.05746	0.2535	1.3540	1.9940 23.040
## 258	0.1601	0.05913	0.1916	1.5550	1.3590 13.660
## 259	0.1590	0.05653	0.2368	0.8732	1.4710 18.330
## 260	0.1885	0.05766	0.2699	0.7886	2.0580 23.560
## 261	0.1937	0.06161	0.2841	1.6520	1.8690 22.220
## 262	0.1593	0.06127	0.2199	2.2390	1.4370 14.460
## 263	0.1931	0.05796	0.4743	0.7859	3.0940 48.310
## 264	0.1579	0.05594	0.3316	0.9264	2.0560 28.410
## 265	0.2248	0.06382	0.6009	1.3980	3.9990 67.780
## 266	0.2350	0.07389	0.3063	1.0020	2.4060 24.320
## 267	0.1964	0.06315	0.3567	1.9220	2.7470 22.790
## 268	0.1902	0.08980	0.5262	0.8522	3.1680 25.440
## 269	0.1544	0.05976	0.2239	1.1390	1.5770 18.040
## 270	0.1978	0.06000	0.5243	1.8020	4.0370 60.410
## 271	0.1574	0.05750	0.3639	1.2650	2.6680 30.570
## 272	0.2397	0.07800	0.9555	3.5680	11.0700 116.200
## 273	0.1641	0.05764	0.1504	1.6850	1.2370 12.670
## 274	0.1720	0.05914	0.2505	1.0250	1.7400 19.680
## 275	0.1767	0.05529	0.4357	1.0730	3.8330 54.220
## 276	0.1648	0.05525	2.8730	1.4760	21.9800 525.600
## 277	0.1487	0.05748	0.2323	1.6360	1.5960 21.840
## 278	0.1590	0.05648	0.4564	1.0750	3.4250 48.550
## 279	0.1661	0.05948	0.3163	1.3040	2.1150 20.670
## 280	0.1870	0.07285	0.3777	1.4620	2.4920 19.140
## 281	0.2152	0.06673	0.9806	0.5505	6.3110 134.800
## 282	0.1637	0.06343	0.1344	1.0830	0.9812 9.332
## 283	0.1555	0.06048	0.2430	1.1520	1.5590 18.020
## 284	0.1717	0.05660	0.3242	0.6612	1.9960 27.190
## 285	0.1867	0.05580	0.4203	0.7383	2.8190 45.420
## 286	0.1409	0.05355	0.2204	1.0060	1.4710 19.980

	287	0.2235	0.06433	0.4207	1.8450	3.5340	31.000
	288	0.1802	0.06188	0.5079	0.8737	3.6540	59.700
##	289	0.2205	0.05898	1.0040	0.8208	6.3720	137.900
##	290	0.1641	0.06854	0.2324	0.6332	1.6960	18.400
##	291	0.1742	0.06059	0.5375	2.9270	3.6180	29.110
##	292	0.1872	0.05669	0.1705	0.5066	1.3720	14.000
##	293	0.1834	0.06877	0.6191	2.1120	4.9060	49.700
##	294	0.1695	0.05916	0.2527	0.7786	1.8740	18.570
##	295	0.1824	0.06140	1.0080	0.6999	7.5610	130.200
##	296	0.1991	0.06739	0.9915	0.9004	7.0500	139.900
##	297	0.2127	0.06251	0.6986	0.9901	4.7060	87.780
##	298	0.1582	0.05395	0.7582	1.0170	5.8650	112.400
##	299	0.1657	0.06608	0.2513	0.5040	1.7140	18.540
##	300	0.2151	0.06578	0.3147	0.9857	3.0700	33.120
##	301	0.1741	0.05176	1.0000	0.6336	6.9710	119.300
##	302	0.1635	0.05586	0.2300	0.6690	1.6610	20.560
##	303	0.1442	0.05743	0.2818	0.7614	1.8080	18.540
##	304	0.2116	0.07325	0.3906	0.9306	3.0930	33.670
##	305	0.1935	0.06303	0.3473	0.9209	2.2440	32.190
##	306	0.1448	0.05592	0.5240	1.1890	3.7670	70.010
##	307	0.2128	0.07152	0.2602	1.2050	2.3620	22.650
	308	0.1735	0.06200	0.1458	0.9050	0.9975	11.360
##	309	0.1744	0.06493	0.4220	1.9090	3.2710	39.430
	310	0.1962	0.06303	0.2569	0.4981	2.0110	21.030
	311	0.2166	0.05419	0.8336	1.7360	5.1680	
	312	0.1813	0.05613	0.3093	0.8568	2.1930	33.630
	313	0.1732	0.06088	0.2431	0.9462	1.5640	20.640
	314	0.2015	0.05875	0.6412	2.2930	4.0210	48.840
	315	0.1974	0.06782	0.3704	0.8249	2.4270	31.330
	316	0.1421	0.05763	0.1689	1.1500	1.4000	14.910
	317	0.1809	0.05883	0.7572	0.7813	5.4380	94.440
	318	0.1909	0.06309	1.0580	0.9635	7.2470	155.800
	319	0.2030	0.06552	0.2800	1.4670	1.9940	17.850
	320	0.1521	0.05912	0.3428	0.3981	2.5370	29.060
	321	0.2082	0.07325	0.3921	1.2070	5.0040	30.190
	322	0.1896	0.05656	0.4615	0.9197	3.0080	45.190
##	323	0.2095	0.05649	0.7576	1.5090	4.5540	87.870

## 324	0.1688	0.06194	0.3118	0.9227	2.0000	24.790
## 325	0.1546	0.05754	0.1153	0.6745	0.7570	9.006
## 326	0.2132	0.06022	0.6997	1.4750	4.7820	80.600
## 327	0.1517	0.05835	0.2589	1.5030	1.6670	22.070
## 328	0.2096	0.07331	0.5520	1.0720	3.5980	58.630
## 329	0.2540	0.06087	0.4202	1.3220	2.8730	34.780
## 330	0.1797	0.05506	1.0090	0.9245	6.4620	164.100
## 331	0.1903	0.06422	0.1988	0.4960	1.2180	12.260
## 332	0.1861	0.06347	0.3665	0.7693	2.5970	26.500
## 333	0.1381	0.06400	0.1728	0.4064	1.1260	11.480
## 334	0.1673	0.05649	0.2113	0.5996	1.4380	15.820
## 335	0.1957	0.06216	1.2960	1.4520	8.4190	101.900
## 336	0.1359	0.05526	0.2134	0.3628	1.5250	20.000
## 337	0.1528	0.05185	0.3511	0.9527	2.3290	28.300
## 338	0.2111	0.08046	0.3274	1.1940	1.8850	17.670
## 339	0.1953	0.06083	0.6422	1.5300	4.3690	88.250
## 340	0.1784	0.06259	0.1630	0.3871	1.1430	13.870
## 341	0.1735	0.05875	0.2387	0.6372	1.7290	21.830
## 342	0.1953	0.05629	0.5495	0.6636	3.0550	57.650
## 343	0.1869	0.06532	0.5706	1.4570	2.9610	57.720
## 344	0.2054	0.07669	0.2428	1.6420	2.3690	16.390
## 345	0.2160	0.05891	0.4332	1.2650	2.8440	43.680
## 346	0.1584	0.07065	0.4030	1.4240	2.7470	22.870
## 347	0.1930	0.06621	0.5381	1.2000	4.2770	30.180
## 348	0.1645	0.06562	0.2843	1.9080	1.9370	21.380
## 349	0.1561	0.05915	0.3860	1.1980	2.6300	38.490
## 350	0.1820	0.06850	0.2623	1.2040	1.8650	19.390
## 351	0.1589	0.05586	0.2142	0.6549	1.6060	19.250
## 352	0.1739	0.06149	0.6003	0.8225	4.6550	61.100
## 353	0.1566	0.05708	0.2116	1.3600	1.5020	16.830
## 354	0.1487	0.06529	0.2344	0.9861	1.5970	16.410
## 355	0.1953	0.06654	0.3577	1.2810	2.4500	35.240
## 356	0.1717	0.06899	0.2351	2.0110	1.6600	14.200
## 357	0.1934	0.06285	0.2137	1.3420	1.5170	12.330
## 358	0.1533	0.06057	0.2222	0.8652	1.4440	17.120
## 359	0.1794	0.05742	0.4467	0.7732	3.1800	53.910
## 360	0.1692	0.06576	0.3013	1.8790	2.1210	17.860

## 361	0.1467	0.05177	0.6874	1.0410	5.1440	83.500
## 362	0.1847	0.05338	0.4033	1.0780	2.9030	36.580
## 363	0.1701	0.05960	0.4455	3.6470	2.8840	35.130
## 364	0.1800	0.06569	0.1911	0.5477	1.3480	11.880
## 365	0.1900	0.06635	0.3661	1.5110	2.4100	24.440
## 366	0.1818	0.06782	0.2784	1.7680	1.6280	20.860
## 367	0.1971	0.06166	0.8113	1.4000	5.5400	93.910
## 368	0.1621	0.05952	0.1781	1.6870	1.2430	11.280
## 369	0.1833	0.06100	0.1312	0.3602	1.1070	9.438
## 370	0.1776	0.05647	0.5959	0.6342	3.7970	71.000
## 371	0.1943	0.06612	0.2577	1.0950	1.5660	18.490
## 372	0.2341	0.06963	0.4098	2.2650	2.6080	23.520
## 373	0.1539	0.05945	0.1840	1.5320	1.1990	13.240
## 374	0.1464	0.06284	0.2194	1.1900	1.6780	16.260
## 375	0.1799	0.05826	0.1692	0.6674	1.1160	13.320
## 376	0.1613	0.06013	0.3276	1.4860	2.1080	24.600
## 377	0.1840	0.05680	0.3031	1.3850	2.1770	27.410
## 378	0.1779	0.06588	0.2608	0.8730	2.1170	19.200
## 379	0.1954	0.05821	0.2375	1.2800	1.5650	17.090
## 380	0.1883	0.06168	0.2562	1.0380	1.6860	18.620
## 381	0.1555	0.05673	0.3419	1.6780	2.3310	29.630
## 382	0.1695	0.06556	0.2868	1.1430	2.2890	20.560
## 383	0.2075	0.05636	0.4204	2.2200	3.3010	38.870
## 384	0.1998	0.06515	0.3340	0.6857	2.1830	35.030
## 385	0.1927	0.06211	0.2430	1.0100	1.4910	18.190
## 386	0.1669	0.06714	0.1144	1.0230	0.9887	7.326
## 387	0.1721	0.06194	1.1670	1.3520	8.8670	156.800
## 388	0.1482	0.06600	0.1485	1.5630	1.0350	10.080
## 389	0.1609	0.05871	0.4565	1.2900	2.8610	43.140
## 390	0.1711	0.05657	0.2067	0.4706	1.1460	20.670
## 391	0.1713	0.05916	0.3897	1.0770	2.8730	43.950
## 392	0.1060	0.05502	0.3141	3.8960	2.0410	22.810
## 393	0.1353	0.05953	0.1872	0.9234	1.4490	14.550
## 394	0.1902	0.06220	0.6361	1.0010	4.3210	69.650
## 395	0.1631	0.06155	0.2047	0.4801	1.3730	17.250
## 396	0.1607	0.05474	0.2541	0.6218	1.7090	23.120
## 397	0.1886	0.06320	0.2456	0.7339	1.6670	15.890

##	398	0.1717	0.06097	0.3129	0.8413	2.0750	29.440
##	399	0.2082	0.05715	0.6226	2.2840	5.1730	67.660
##	400	0.1350	0.06890	0.3350	2.0430	2.1320	20.050
##	401	0.1387	0.06891	0.2498	1.2160	1.9760	15.240
##	402	0.1422	0.05823	0.1639	1.1400	1.2230	14.660
##	403	0.1853	0.06261	0.5558	0.6062	3.5280	68.170
##	404	0.1571	0.05478	0.6137	0.6575	4.1190	77.020
##	405	0.1601	0.06432	0.2810	0.8135	3.3690	23.810
##	406	0.1618	0.05557	0.5781	0.9168	4.2180	72.440
##	407	0.1990	0.06572	0.1745	0.4890	1.3490	14.910
##	408	0.1667	0.06113	0.1408	0.4607	1.1030	10.500
	409	0.2157	0.06768	0.4266	0.9489	2.9890	41.180
##	410	0.1551	0.06403	0.2152	0.8301	1.2150	12.640
	411	0.1596	0.06409	0.2025	0.4402	2.3930	16.350
	412	0.1869	0.05628	0.1210	0.8927	1.0590	8.605
	413	0.1399	0.05688	0.2525	1.2390	1.8060	17.740
	414	0.1339	0.05945	0.4489	2.5080	3.2580	34.370
	415	0.2101	0.06113	0.5619	1.2680	3.7170	37.830
	416	0.1823	0.06115	0.5659	1.4080	3.6310	67.740
	417	0.1734	0.05865	0.1759	0.9938	1.1430	12.670
	418	0.1912	0.06412	0.3491	0.7706	2.6770	32.140
	419	0.1875	0.06020	0.9761	1.8920		103.600
	420	0.2678	0.07371	0.3197	1.4260	2.2810	24.720
	421	0.2548	0.09296	0.8245	2.6640	4.0730	49.850
	422	0.1616	0.05684	0.3105	0.8339	2.0970	29.910
	423	0.1830	0.06105	0.2251	0.7815	1.4290	15.480
	424	0.2378	0.09502	0.4076	1.0930	3.0140	20.040
	425	0.1167	0.06217	0.3344	1.1080	1.9020	22.770
	426	0.1905	0.06590	0.4255	1.1780	2.9270	36.460
	427	0.2459	0.06581	0.3610	1.0500	2.4550	26.650
	428	0.1573	0.05703	0.3028	0.6683	1.6120	23.920
	429	0.1791	0.06331	0.2441	2.0900	1.6480	16.800
	430	0.2398	0.07596	0.6592	1.0590	4.0610	59.460
	431	0.1761	0.06130	0.2310	1.0050	1.7520	19.830
	432	0.1860	0.05941	0.5449	0.9225	3.2180	67.360
	433	0.2079	0.05968	0.2271	1.2550	1.4410	16.160
##	434	0.1832	0.06697	0.7923	1.0450	4.8510	95.770

##	435	0.1489	0.06640	0.2574	1.3760	2.8060	18.150
##	436	0.1373	0.05700	0.2571	1.0810	1.5580	23.920
##	437	0.1550	0.04996	0.3283	0.8280	2.3630	36.740
##	438	0.1829	0.05667	0.1942	0.9086	1.4930	15.750
##	439	0.1683	0.07187	0.1559	0.5796	1.0460	8.322
##	440	0.1993	0.06453	0.5018	1.6930	3.9260	38.340
##	441	0.1761	0.06540	0.2684	0.5664	2.4650	20.650
##	442	0.1664	0.05801	0.3460	1.3360	2.0660	31.240
##	443	0.1855	0.06284	0.4768	0.9644	3.7060	47.140
##	444	0.1779	0.06639	0.1588	0.5733	1.1020	12.840
##	445	0.1809	0.05966	0.5366	0.8561	3.0020	49.000
##	446	0.1815	0.06905	0.2773	0.9768	1.9090	15.700
##	447	0.1773	0.05429	0.4347	1.0570	2.8290	39.930
##	448	0.1382	0.06070	0.2335	0.9097	1.4660	16.970
##	449	0.1967	0.06314	0.2963	1.5630	2.0870	21.460
##	450	0.1793	0.06281	0.9291	1.1520	6.0510	115.200
##	451	0.1788	0.06450	0.1913	0.9027	1.2080	11.860
##	452	0.1943	0.06937	0.4053	1.8090	2.6420	34.440
	453	0.1989	0.05884	0.6107	2.8360	5.3830	70.100
	454	0.1349	0.06612	0.2560	1.5540	1.9550	20.240
	455	0.2019	0.06290	0.2747	1.2030	1.9300	19.530
	456	0.1724	0.06081	0.2406	0.7394	2.1200	21.200
	457	0.2403	0.06641	0.4101	1.0140	2.6520	32.650
	458	0.1769	0.05674	1.1720	1.6170	7.7490	199.700
	459	0.1722	0.06724	0.2204	0.7873	1.4350	11.360
	460	0.1395	0.05234	0.1731	1.1420	1.1010	14.340
	461	0.2061	0.05623	2.5470	1.3060	18.6500	
	462	0.1943	0.06132	0.8191	1.9310		103.900
	463	0.2003	0.06246	0.1642	1.0310	1.2810	11.680
	464	0.1405	0.05848	0.3563	0.4833	2.2350	29.340
	465	0.3040	0.07413	1.0460	0.9760	7.2760	111.400
	466	0.1811	0.07102	0.1767	1.4600	2.2040	15.430
	467	0.1632	0.05894	0.1903	0.5735	1.2040	15.500
	468	0.1720	0.05780	0.2986	0.5906	1.9210	35.770
	469	0.1743	0.07279	0.3677	1.4710	1.5970	22.680
	470	0.1714	0.05898	0.3892	1.0460	2.6440	32.740
##	471	0.1694	0.06287	0.7311	1.7480	5.1180	53.650

##	472	0.1515	0.05266	0.1840	1.0650	1.2860	16.640
##	473	0.1467	0.05863	0.1839	2.3420	1.1700	14.160
##	474	0.1428	0.05313	0.7392	1.3210	4.7220	109.900
##	475	0.1854	0.05698	0.6061	2.6430	4.0990	44.960
##	476	0.1807	0.05664	0.4041	0.5503	2.5470	48.900
##	477	0.1203	0.06659	0.1194	1.4340	1.7780	9.549
##	478	0.1554	0.05661	0.6643	1.3610	4.5420	81.890
##	479	0.1879	0.05852	0.2877	0.9480	2.1710	24.870
##	480	0.2275	0.07237	0.4751	1.5280	2.9740	39.050
##	481	0.1856	0.06402	0.2929	0.8570	1.9280	24.190
##	482	0.1879	0.06390	0.2895	1.8510	2.3760	26.850
##	483	0.2183	0.06197	0.8307	1.4660	5.5740	105.000
##	484	0.1669	0.08116	0.4311	2.2610	3.1320	27.480
##	485	0.1671	0.05731	0.3534	0.6724	2.2250	26.030
##	486	0.2375	0.07603	0.5204	1.3240	3.4770	51.220
##	487	0.2238	0.06413	0.3776	1.3500	2.5690	22.730
##	488	0.2556	0.07039	1.2150	1.5450	10.0500	170.000
##	489	0.1713	0.05888	0.3237	1.4730	2.3260	26.070
##	490	0.2196	0.07950	0.2114	1.0270	1.7190	13.990
##	491	0.2116	0.06077	0.7548	1.2880	5.3530	89.740
##	492	0.2397	0.07016	0.7260	1.5950	5.7720	86.220
##	493	0.1966	0.07069	0.4209	0.6583	2.8050	44.640
##	494	0.1619	0.06408	0.1507	1.5830	1.1650	10.090
##	495	0.1828	0.06757	0.3582	2.0670	2.4930	18.390
##	496	0.1709	0.07253	0.4426	1.1690	3.1760	34.370
##	497	0.1945	0.06322	0.1803	1.2220	1.5280	11.770
	498	0.1746	0.06177	0.1938	0.6123	1.3340	14.490
##	499	0.1893	0.06232	0.8426	1.1990	7.1580	106.400
	500	0.2091	0.06650	0.2419	1.2780	1.9030	23.020
	501	0.1846	0.05325	0.2473	0.5679	1.7750	22.950
	502	0.1528	0.05697	0.3795	1.1870	2.4660	40.510
##	503	0.2164	0.07356	0.5692	1.0730	3.8540	54.180
	504	0.2188	0.08450	0.1115	1.2310	2.3630	7.228
	505	0.1957	0.07255	0.4101	1.7400	3.0270	27.850
	506	0.1845	0.05828	0.2239	1.6470	1.4890	15.460
	507	0.1508	0.05376	0.1302	0.7198	0.8439	10.770
##	508	0.1659	0.05348	0.2182	0.6232	1.6770	20.720

"" 500	0 2140	0.0070	0.0000	1 0000	0 7500 110 000
## 509	0.2149	0.06879	0.9622	1.0260	8.7580 118.800
## 510	0.2085	0.06864	1.3700	1.2130	9.4240 176.500
## 511	0.1967	0.06811	0.1852	0.7477	1.3830 14.670
## 512	0.1538	0.05510	0.4212	1.4330	2.7650 45.810
## 513	0.2301	0.07799	0.4825	1.0300	3.4750 41.000
## 514	0.1360	0.06344	0.2102	0.4336	1.3910 17.400
## 515	0.2175	0.06218	0.4312	1.0220	2.9720 45.500
## 516	0.2123	0.07254	0.3061	1.0690	2.2570 25.130
## 517	0.1812	0.05667	0.5435	0.7339	3.3980 74.080
## 518	0.2069	0.05999	0.7456	0.7869	4.5850 94.030
## 519	0.2092	0.06310	0.8337	1.5930	4.8770 98.810
## 520	0.1850	0.07310	0.1931	0.9223	1.4910 15.090
## 521	0.1925	0.06915	0.3276	1.1270	2.5640 20.770
## 522	0.1925	0.06373	0.3961	1.0440	2.4970 30.290
## 523	0.1852	0.05294	0.4681	1.6270	3.0430 45.380
## 524	0.1587	0.05884	0.3857	1.4280	2.5480 19.150
## 525	0.1930	0.07818	0.2241	1.5080	1.5530 9.833
## 526	0.2010	0.05769	0.2345	1.2190	1.5460 18.240
## 527	0.1514	0.06019	0.2449	1.0660	1.4450 18.510
## 528	0.2129	0.05025	0.5506	1.2140	3.3570 54.040
## 529	0.2013	0.05955	0.2656	1.9740	1.9540 17.490
## 530	0.1680	0.06412	0.3416	1.3120	2.2750 20.980
## 531	0.1588	0.06766	0.2742	1.3900	3.1980 21.910
## 532	0.2037	0.07751	0.2196	1.4790	1.4450 11.730
## 533	0.1459	0.05544	0.2954	0.8836	2.1090 23.240
## 534	0.1794	0.06323	0.3037	1.2840	2.4820 31.590
## 535	0.2202	0.06113	0.4953	1.1990	2.7650 63.330
## 536	0.1705	0.05913	0.1499	0.4875	1.1950 11.640
## 537	0.1920	0.05907	0.3249	0.9591	2.1830 23.470
## 538	0.1936	0.06128	0.1601	1.4300	1.1090 11.280
## 539	0.1620	0.06688	0.2720	1.0470	2.0760 23.120
## 540	0.1620	0.06582	0.2315	0.5391	1.4750 15.750
## 541	0.2026	0.05223	0.5858	0.8554	4.1060 68.460
## 542	0.2197	0.07696	0.3538	1.1300	2.3880 19.630
## 543	0.1697	0.05855	0.2719	1.3500	1.7210 22.450
## 544	0.2569	0.06670	0.5702	1.0230	4.0120 69.060
## 545	0.2906	0.08142	0.9317	1.8850	8.6490 116.400

##	546	0.1730	0.06470	0.2094	0.7636	1.2310	17.670
##	547	0.1305	0.07163	0.3132	0.9789	3.2800	16.940
##	548	0.1759	0.06183	0.2213	1.2850	1.5350	17.260
##	549	0.1537	0.06171	0.3645	1.4920	2.8880	29.840
##	550	0.1675	0.06043	0.2636	0.7294	1.8480	19.870
	551	0.1580	0.06114	0.4993	1.7980	2.5520	41.240
##	552	0.1690	0.06083	0.4222	0.8092	3.3300	28.840
	553	0.2030	0.08243	0.2976	1.5990	2.0390	23.940
	554	0.1598	0.06677	0.4384	1.9070	3.1490	30.660
	555	0.1619	0.05584	0.2084	1.3500	1.3140	17.580
	556	0.2162	0.06606	0.6242	0.9209	4.1580	80.990
	557	0.1834	0.05934	0.3927	0.8429	2.6840	26.990
	558	0.2086	0.07406	0.5462	1.5110	4.7950	49.450
	559	0.1566	0.06669	0.2073	1.8050	1.3770	19.080
	560	0.1893	0.05886	0.2204	0.6221	1.4820	19.750
	561	0.1885	0.06125	0.2860	1.0190	2.6570	24.910
	562	0.1638	0.06129	0.2575	0.8073	1.9590	19.010
	563	0.1707	0.05433	0.2315	0.9112	1.7270	20.520
	564	0.1543	0.06476	0.2212	1.0420	1.6140	16.570
	565	0.1454	0.05549	0.2023	0.6850	1.2360	16.890
	566	0.1633	0.07005	0.3380	2.5090	2.3940	19.330
	567	0.1727	0.06317	0.2054	0.4956	1.3440	19.530
	568	0.1650	0.06121	0.3060	0.7213	2.1430	25.700
	569	0.1973	0.06183	0.3414	1.3090	2.4070	39.060
##			${\tt compactness_se}$				
##		0.008045	0.011800	0.0168300	0.012410	0.019240	
##		0.007470	0.035810	0.0335400	0.013650	0.035040	
##		0.005158	0.009355	0.0105600	0.007483	0.017180	
##		0.011270	0.034980	0.0218700	0.019650	0.015800	
##		0.005012	0.014850	0.0155100	0.009155	0.016470	
##		0.007278	0.020470	0.0444700	0.008799	0.018680	
##		0.008200	0.029820	0.0573800	0.012670	0.014880	
##		0.008824	0.031080	0.0311200	0.012910	0.019980	
##		0.007595	0.022190	0.0288000	0.008614	0.027100	
##		0.007416	0.018770	0.0275800	0.010100	0.023480	
	11	0.006666	0.027910	0.0406200	0.014790	0.011170	
##	12	0.005518	0.015620	0.0199400	0.007924	0.017990	

##	13	0.007295	0.031790	0.0461500	0.012540	0.015610
##	14	0.007491	0.008593	0.0006920	0.004167	0.021900
##	15	0.011900	0.019290	0.0490700	0.014990	0.016410
##	16	0.004242	0.046390	0.0657800	0.016060	0.016380
##	17	0.005217	0.015150	0.0167800	0.012680	0.016690
##	18	0.006809	0.009514	0.0132900	0.006474	0.020570
##	19	0.007964	0.047320	0.0764900	0.019360	0.027360
##	20	0.006773	0.024560	0.0101800	0.008094	0.026620
##	21	0.006905	0.008704	0.0197800	0.011850	0.018970
##	22	0.012880	0.034950	0.0186500	0.017660	0.015600
##	23	0.009519	0.021340	0.0199000	0.011550	0.020790
	24	0.009006	0.041850	0.0320400	0.022580	0.023530
##	25	0.011880	0.037470	0.0459100	0.015440	0.022870
##	26	0.004717	0.020650	0.0175900	0.009206	0.012200
##	27	0.005884	0.014910	0.0187200	0.009366	0.018840
##	28	0.005233	0.030570	0.0357600	0.010830	0.017680
##	29	0.005954	0.034710	0.0502800	0.008510	0.017500
##	30	0.004394	0.012500	0.0145100	0.005484	0.012910
##	31	0.004148	0.004711	0.0028310	0.004821	0.014220
##	32	0.007499	0.012020	0.0233200	0.008920	0.016470
##	33	0.006766	0.070250	0.0659100	0.023110	0.016730
##	34	0.005888	0.023100	0.0205900	0.010750	0.025780
	35	0.004953	0.018120	0.0303500	0.008648	0.015390
##	36	0.005212	0.029840	0.0244300	0.008356	0.018180
##	37	0.004444	0.016520	0.0226900	0.013700	0.013860
##	38	0.010170	0.047410	0.0278900	0.011100	0.031270
##	39	0.006123	0.024700	0.0262600	0.016040	0.020910
##	40	0.004563	0.034810	0.0387200	0.012090	0.013880
##	41	0.005043	0.015780	0.0211700	0.008185	0.012820
##	42	0.004057	0.022770	0.0402900	0.013030	0.016860
##	43	0.009110	0.074580	0.0566100	0.018670	0.059630
##	44	0.005231	0.023050	0.0311300	0.007315	0.016390
##	45	0.003308	0.013150	0.0099040	0.004832	0.013160
##	46	0.005530	0.052960	0.0611000	0.014440	0.021400
##	47	0.005883	0.006263	0.0093980	0.006189	0.020090
##	48	0.006369	0.042430	0.0426600	0.015080	0.023350
##	49	0.005442	0.019570	0.0330400	0.013670	0.013150

##	50	0.006530	0.033690	0.0471200	0.014030	0.027400
##	51	0.005960	0.034380	0.0390900	0.014350	0.019390
##	52	0.004119	0.032070	0.0364400	0.011550	0.013910
##	53	0.005463	0.019640	0.0207900	0.005398	0.014770
##	54	0.006307	0.028450	0.0385000	0.010110	0.011850
##	55	0.009327	0.051210	0.0895800	0.024650	0.021750
##	56	0.006794	0.035750	0.0398000	0.013830	0.021340
##	57	0.006982	0.039160	0.0401700	0.015280	0.022600
##	58	0.014390	0.012000	0.0015970	0.002404	0.025380
##	59	0.023330	0.098060	0.1278000	0.018220	0.045470
##	60	0.005654	0.021990	0.0305900	0.014990	0.016230
##	61	0.006548	0.100600	0.0972300	0.026380	0.053330
##	62	0.006174	0.036340	0.0464400	0.015690	0.011450
##	63	0.031130	0.085550	0.1438000	0.039270	0.021750
##	64	0.003280	0.011020	0.0139000	0.006881	0.013800
##	65	0.006789	0.053280	0.0644600	0.022520	0.036720
##	66	0.011340	0.031750	0.0312500	0.011350	0.018790
##	67	0.006032	0.011040	0.0225900	0.009057	0.014820
##	68	0.005031	0.006021	0.0053250	0.006324	0.014940
##	69	0.004235	0.015410	0.0145700	0.010430	0.015280
##	70	0.005251	0.017270	0.0184000	0.005298	0.014490
##	71	0.005367	0.022390	0.0304900	0.012620	0.013770
##	72	0.007803	0.014490	0.0169000	0.008043	0.021000
##	73	0.009845	0.065900	0.1027000	0.025270	0.034910
	74	0.004369	0.008274	0.0115300	0.007437	0.013020
##	75	0.003443	0.026610	0.0305600	0.011100	0.015200
##	76	0.007112	0.024930	0.0270300	0.012930	0.019580
##	77	0.002866	0.009181	0.0141200	0.006719	0.010690
##	78	0.009282	0.009216	0.0206300	0.008965	0.021830
##	79	0.006494	0.027680	0.0313700	0.010690	0.017310
##	80	0.007231	0.027720	0.0250900	0.014800	0.014140
##	81	0.005080	0.013700	0.0072760	0.009073	0.013500
##	82	0.005996	0.022120	0.0211700	0.006433	0.020250
##	83	0.005498	0.020450	0.0179500	0.006399	0.018290
##	84	0.005508	0.044120	0.0443600	0.016230	0.024270
##	85	0.006635	0.017770	0.0210100	0.011640	0.021080
##	86	0.004731	0.013450	0.0165200	0.005905	0.016190

##	87	0.003681	0.009169	0.0087320	0.005740	0.011290
##	88	0.005841	0.012460	0.0079360	0.009128	0.015640
##	89	0.004728	0.012590	0.0171500	0.010380	0.010830
##	90	0.006739	0.022510	0.0208600	0.013520	0.018700
##	91	0.008534	0.006364	0.0061800	0.007408	0.010650
##	92	0.003796	0.013710	0.0134600	0.007096	0.015360
##	93	0.002826	0.009105	0.0131100	0.005174	0.010130
##	94	0.006054	0.008974	0.0056810	0.006336	0.012150
##	95	0.007970	0.135400	0.1166000	0.016660	0.051130
##	96	0.005839	0.032450	0.0371500	0.014590	0.014670
##	97	0.003629	0.037130	0.0345200	0.010650	0.026320
##	98	0.007595	0.015000	0.0141200	0.008578	0.017920
##	99	0.007899	0.014000	0.0085340	0.007624	0.026370
##	100	0.008166	0.056930	0.0573000	0.020300	0.010650
##	101	0.008902	0.047850	0.0733900	0.017450	0.027280
##	102	0.001713	0.006736	0.0000000	0.000000	0.037990
##	103	0.006472	0.011220	0.0128200	0.008849	0.016920
##	104	0.005718	0.011620	0.0199800	0.011090	0.014100
##	105	0.006261	0.015690	0.0307900	0.005383	0.019620
##	106	0.004957	0.021140	0.0415600	0.008038	0.018430
##	107	0.009853	0.042350	0.0627100	0.019660	0.026390
##	108	0.006272	0.021980	0.0396600	0.009894	0.013200
##	109	0.008263	0.018700	0.0127700	0.005917	0.024660
##	110	0.006908	0.009442	0.0069720	0.006159	0.026940
##	111	0.008540	0.023100	0.0294500	0.013980	0.015650
##	112	0.012430	0.054160	0.0775300	0.010220	0.023090
##	113	0.008102	0.021010	0.0334200	0.016010	0.020450
##	114	0.006429	0.059360	0.0550100	0.016280	0.019610
##	115	0.005857	0.009758	0.0116800	0.007445	0.024060
##	116	0.008109	0.043080	0.0494200	0.017420	0.015940
##	117	0.004044	0.015970	0.0200000	0.007303	0.015220
##	118	0.007269	0.029280	0.0497200	0.016390	0.018520
##	119	0.006804	0.031690	0.0344600	0.017120	0.018970
##	120	0.007807	0.039320	0.0511200	0.018760	0.028600
	121	0.004599	0.009169	0.0091270	0.004814	0.012470
##	122	0.008124	0.036110	0.0548900	0.027650	0.031760
##	123	0.006122	0.023370	0.0159600	0.006998	0.031940

## 124	0.005568	0.011120	0.0209600	0.011970	0.012630
## 125	0.009191	0.008548	0.0094000	0.006315	0.017550
## 126	0.006652	0.026520	0.0222100	0.007807	0.018940
## 127	0.007162	0.029120	0.0547300	0.013880	0.015470
## 128	0.008312	0.017420	0.0338900	0.015760	0.017400
## 129	0.004428	0.027310	0.0404000	0.013610	0.020300
## 130	0.006113	0.025830	0.0464500	0.012760	0.014510
## 131	0.006965	0.062130	0.0792600	0.022340	0.014990
## 132	0.003980	0.028090	0.0366900	0.012740	0.015810
## 133	0.004973	0.013720	0.0149800	0.009117	0.017240
## 134	0.010300	0.028910	0.0519800	0.024540	0.011140
## 135	0.012620	0.023480	0.0180000	0.012850	0.022200
## 136	0.006048	0.018820	0.0274100	0.011300	0.014680
## 137	0.015820	0.019660	0.0000000	0.000000	0.018650
## 138	0.005528	0.009789	0.0083420	0.006273	0.014650
## 139	0.006455	0.017970	0.0450200	0.017440	0.018290
## 140	0.007210	0.008380	0.0131100	0.008000	0.019960
## 141	0.010750	0.027220	0.0508100	0.019110	0.022930
## 142	0.006399	0.049040	0.0537300	0.015870	0.030030
## 143	0.005769	0.024230	0.0395000	0.016780	0.018980
## 144	0.009407	0.070560	0.0689900	0.018480	0.017000
## 145	0.004452	0.030550	0.0268100	0.013520	0.014540
## 146	0.007831	0.008776	0.0155600	0.006240	0.031390
## 147	0.005771	0.040610	0.0279100	0.012820	0.020080
## 148	0.007257	0.018050	0.0183200	0.010330	0.016940
## 149	0.007357	0.010790	0.0099590	0.011200	0.034330
## 150	0.003457	0.010470	0.0116700	0.005558	0.012510
## 151	0.004928	0.003012	0.0026200	0.003390	0.013930
## 152	0.013070	0.018850	0.0060210	0.010520	0.031000
## 153	0.005324	0.015630	0.0151000	0.007584	0.021040
## 154 ## 155	0.007086	0.007247	0.0101200	0.005495	0.015600
## 155	0.007762	0.106400	0.0996000	0.027710	0.040770
## 150	0.006836 0.003741	0.008982	0.0234800 0.0106500	0.006565 0.005044	0.019420 0.013440
## 157	0.008064	0.005274 0.017640	0.0259500	0.010370	0.013440
## 156	0.010720	0.013310	0.0199300	0.010370	0.013370
## 159	0.004455	0.013820	0.0209500	0.011110	0.017170
## 100	0.004433	0.013020	0.0209300	0.011040	0.010410

0.004481	0.010380	0.0135800	0.010820	0.010690
0.015740	0.082620	0.0809900	0.034870	0.034180
0.005638	0.007939	0.0052540	0.006042	0.015440
0.007389	0.004883	0.0036810	0.003472	0.027010
0.005753	0.033560	0.0397600	0.021560	0.022010
0.004631	0.025370	0.0310900	0.012410	0.015750
0.007089	0.014280	0.0236000	0.012860	0.022660
0.006717	0.059810	0.0463800	0.021490	0.027470
0.008584	0.020170	0.0304700	0.009536	0.027690
0.002838	0.015920	0.0178000	0.005828	0.013290
0.006532	0.023360	0.0290500	0.012150	0.017430
				0.012230
				0.014860
				0.020300
				0.015200
				0.017480
				0.018520
				0.011910
				0.024280
				0.014470
				0.015030
				0.015500
				0.021540
				0.015230
				0.042430
				0.029410
				0.011770
				0.014920
				0.021930
				0.017980
				0.018750
				0.010960
				0.011480
				0.018570
				0.015470
				0.030560
0.010320	0.024310	0.0491200	0.01/400	0.021200
	0.015740 0.005638 0.007389 0.005753 0.004631 0.007089 0.006717 0.008584 0.002838	0.015740 0.082620 0.005638 0.007939 0.007389 0.004883 0.005753 0.033560 0.004631 0.025370 0.007089 0.014280 0.006717 0.059810 0.002838 0.015920 0.006532 0.023360 0.005314 0.017910 0.008805 0.030290 0.005436 0.024060 0.006003 0.010630 0.005293 0.016610 0.004259 0.014690 0.005080 0.006098 0.007514 0.017790 0.010820 0.022030 0.004348 0.008153 0.005472 0.019190 0.012890 0.011040 0.005532 0.020080 0.006001 0.014220 0.004536 0.013760 0.013800 0.010670 0.006770 0.019380 0.006775 0.012040 0.005607 0.042400 0.007545 0.060500	0.015740 0.082620 0.0809900 0.005638 0.007939 0.0052540 0.007389 0.004883 0.0036810 0.005753 0.033560 0.0397600 0.004631 0.025370 0.0310900 0.007089 0.014280 0.0236000 0.006717 0.059810 0.0463800 0.008584 0.020170 0.0304700 0.002838 0.015920 0.0178000 0.005314 0.017910 0.0218500 0.005314 0.017910 0.0248800 0.005436 0.024060 0.0309900 0.005436 0.024060 0.0309900 0.005293 0.016610 0.0227100 0.004259 0.014690 0.0194000 0.005294 0.039940 0.0555400 0.007514 0.017790 0.0140100 0.004348 0.008153 0.0042720 0.004348 0.008153 0.0042720 0.005472 0.0191990 0.0223900 0.005532 0.01040 0.0032970 </th <th>0.015740 0.082620 0.0809900 0.034870 0.005638 0.007939 0.0052540 0.006042 0.007389 0.004883 0.0036810 0.003472 0.005753 0.033560 0.0397600 0.021560 0.004631 0.025370 0.0310900 0.012410 0.007089 0.014280 0.0236000 0.012490 0.008584 0.020170 0.0304700 0.009536 0.002838 0.015920 0.0178000 0.0012150 0.005314 0.017910 0.0248800 0.012150 0.008805 0.030290 0.0248800 0.014480 0.005436 0.024060 0.0309900 0.009567 0.008805 0.030290 0.0248800 0.014480 0.005436 0.024060 0.0309900 0.009919 0.006003 0.016630 0.0215100 0.009443 0.005293 0.016610 0.027100 0.008179 0.006458 0.023060 0.0294500 0.015380 0.006294 0.039940</th>	0.015740 0.082620 0.0809900 0.034870 0.005638 0.007939 0.0052540 0.006042 0.007389 0.004883 0.0036810 0.003472 0.005753 0.033560 0.0397600 0.021560 0.004631 0.025370 0.0310900 0.012410 0.007089 0.014280 0.0236000 0.012490 0.008584 0.020170 0.0304700 0.009536 0.002838 0.015920 0.0178000 0.0012150 0.005314 0.017910 0.0248800 0.012150 0.008805 0.030290 0.0248800 0.014480 0.005436 0.024060 0.0309900 0.009567 0.008805 0.030290 0.0248800 0.014480 0.005436 0.024060 0.0309900 0.009919 0.006003 0.016630 0.0215100 0.009443 0.005293 0.016610 0.027100 0.008179 0.006458 0.023060 0.0294500 0.015380 0.006294 0.039940

0.004868	0.018180	0.0112100	0.008606	0.020850
0.004413	0.014430	0.0150900	0.007369	0.013540
0.004405	0.030260	0.0434400	0.010870	0.019210
0.006883	0.010940	0.0181800	0.019170	0.007882
0.006543	0.021480	0.0299100	0.010450	0.018440
0.004449	0.028080	0.0331200	0.011960	0.019060
0.012910	0.040420	0.0510100	0.022950	0.021440
0.009536	0.010970	0.0165100	0.011210	0.019530
0.009538	0.049400	0.0601900		0.021050
				0.021240
0.005596	0.010050		0.014320	0.015750
				0.014800
				0.017980
				0.018780
				0.018170
				0.015270
				0.014610
				0.012120
				0.041830
				0.018050
				0.016100
				0.021650
				0.019560
				0.013740
				0.017130
				0.018840
				0.018160
				0.032650
				0.061460
				0.026320
				0.024510
				0.015940
				0.017000
				0.024750
				0.029700
				0.025660
0.00009/	0.020830	0.0324800	0.013920	0.015360
	0.004413 0.004405 0.006883 0.006543 0.004449 0.012910 0.009536 0.009538	0.004413 0.014430 0.004405 0.030260 0.006883 0.010940 0.006543 0.021480 0.004449 0.028080 0.012910 0.040420 0.009536 0.010970 0.009538 0.049400 0.006709 0.017010 0.005596 0.010050 0.003338 0.003746 0.004253 0.047590 0.006418 0.039610 0.003659 0.028550 0.005820 0.056160 0.004271 0.020730 0.007514 0.010990 0.007509 0.015610 0.004107 0.032880 0.007510 0.033450 0.004910 0.025440 0.006056 0.032030 0.010370 0.017060 0.08713 0.010170 0.020750 0.014030 0.021770 0.048880 0.009087 0.027150 0.006090 0.025690 0.0052690 0.0052690 0.005298 0.074460	0.004413 0.014430 0.0150900 0.004405 0.030260 0.0434400 0.006883 0.010940 0.0181800 0.004449 0.028080 0.0331200 0.012910 0.040420 0.0510100 0.009536 0.010970 0.0165100 0.009538 0.049400 0.0601900 0.005596 0.010050 0.0127200 0.003338 0.047590 0.0387200 0.004253 0.047590 0.0387200 0.005596 0.023500 0.0257200 0.004253 0.047590 0.0387200 0.005599 0.028550 0.0257200 0.004271 0.020730 0.0282800 0.004271 0.020730 0.0282800 0.004474 0.030930 0.0275700 0.007514 0.010990 0.0076650 0.007509 0.015610 0.0197700 0.004107 0.032880 0.0282100 0.004910 0.025440 0.0282200 0.006064 0.011800 0.0065640 0.006056 0.032030 0.0563800	0.004413 0.014430 0.0150900 0.007369 0.004405 0.030260 0.0434400 0.010870 0.006883 0.010940 0.0181800 0.019170 0.006543 0.021480 0.0299100 0.010450 0.004449 0.028080 0.0331200 0.011960 0.012910 0.040420 0.0510100 0.022950 0.009536 0.010970 0.0165100 0.011210 0.006709 0.017010 0.0208000 0.007497 0.005596 0.010050 0.0127200 0.014320 0.003338 0.003746 0.020300 0.003242 0.004253 0.047590 0.0387200 0.015670 0.006418 0.039610 0.0792700 0.017740 0.003659 0.028550 0.0257200 0.012720 0.005820 0.056160 0.0425200 0.011270 0.004271 0.020730 0.0282800 0.008468 0.004474 0.030930 0.0275700 0.006691 0.007510 0.033450 0.013700 0.013500 0.004107 0.032880 <

0.008835	0.012330	0.0132800	0.009305	0.018970
0.008998	0.012920	0.0185100	0.011670	0.021520
0.008081	0.051220	0.0555100	0.018830	0.025450
0.007897	0.017620	0.0180100	0.007320	0.015920
0.007189	0.010350	0.0108100	0.006245	0.021580
0.016040	0.013860	0.0186500	0.011330	0.034760
0.006351	0.026790	0.0311900	0.013420	0.020620
0.008261	0.022130	0.0325900	0.010400	0.017080
0.005515	0.026740		0.005128	0.019510
				0.014110
				0.014670
				0.022030
				0.014450
				0.020680
				0.025740
				0.017450
				0.010550
				0.023370
				0.012190
				0.015910
				0.017150
				0.030440
				0.013940
				0.013410
				0.022540
				0.019800
				0.020150
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				0.013970
				0.010620
				0.021020
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				0.025600
				0.025410
				0.016080
				0.021860
U.UU3421	0.034//0	U.U4545UU	0.013840	0.018690
	0.008998 0.008081 0.007897 0.007189 0.016040 0.006351 0.008261	0.008998 0.012920 0.008081 0.051220 0.007897 0.017620 0.007189 0.010350 0.016040 0.013860 0.006351 0.026790 0.008261 0.022130 0.005515 0.026740 0.005726 0.011060 0.007440 0.011230 0.005724 0.005697 0.007138 0.046530 0.008968 0.016460 0.007334 0.025890 0.012360 0.059950 0.010380 0.066690 0.007159 0.037180 0.010440 0.032470 0.014740 0.016740 0.005391 0.009947 0.007962 0.005612 0.008462 0.014600 0.008146 0.016310 0.012050 0.027360 0.006240 0.014840 0.003704 0.010820 0.004680 0.031200 0.005096 0.012050 0.004680 0.031200 0.005096 0.012050	0.008898 0.012920 0.0185100 0.007897 0.017620 0.0180100 0.007189 0.010350 0.0108100 0.016040 0.013860 0.0186500 0.006351 0.026790 0.0311900 0.008261 0.022130 0.0325900 0.005515 0.026740 0.0373500 0.005726 0.011060 0.0124600 0.007440 0.011230 0.0233700 0.005724 0.005697 0.0020740 0.007138 0.046530 0.0382900 0.007334 0.025890 0.0294100 0.012360 0.059950 0.0823200 0.010380 0.066690 0.0947200 0.010404 0.032470 0.0476300 0.014740 0.016740 0.0136700 0.005391 0.009947 0.0116300 0.005391 0.009947 0.0116300 0.005391 0.009947 0.0116300 0.005391 0.009947 0.0116300 0.005391 0.0094762 0.005860 0.008462 0.014600 0.0238700	0.008998 0.012920 0.0185100 0.011670 0.008081 0.051220 0.0555100 0.018830 0.007897 0.017620 0.0180100 0.007320 0.007189 0.010350 0.0108100 0.006245 0.016040 0.013860 0.0186500 0.011330 0.006351 0.026790 0.0311900 0.013420 0.008261 0.022130 0.0325900 0.010400 0.005726 0.011060 0.0124600 0.007671 0.008482 0.050570 0.0680000 0.019710 0.007440 0.011230 0.0233700 0.009615 0.005724 0.005697 0.0020740 0.003527 0.007138 0.046530 0.0382900 0.011620 0.008968 0.016460 0.0158800 0.005917 0.007334 0.025890 0.0294100 0.009616 0.004123 0.018190 0.0199600 0.010040 0.012360 0.059950 0.0823200 0.020470 0.007159 0.037180

##	272	0.003139	0.082970	0.0889000	0.040900	0.044840
##	273	0.005371	0.012730	0.0113200	0.009155	0.017190
##	274	0.004854	0.018190	0.0182600	0.007965	0.013860
##	275	0.005524	0.036980	0.0270600	0.012210	0.014150
##	276	0.013450	0.027720	0.0638900	0.014070	0.047830
##	277	0.005415	0.013710	0.0215300	0.011830	0.019590
	278	0.005903	0.037310	0.0473000	0.015570	0.013180
	279	0.009579	0.011040	0.000000	0.000000	0.030040
	280	0.012660	0.009692	0.000000	0.000000	0.028820
	281	0.007940	0.058390	0.0465800	0.020700	0.025910
	282	0.004200	0.005900	0.0038460	0.004065	0.014870
	283	0.007180	0.010960	0.0058320	0.005495	0.019820
	284	0.006470	0.012480	0.0181000	0.011030	0.018980
	285	0.004493	0.012060	0.0204800	0.009875	0.011440
	286	0.003535	0.013930	0.0180000	0.006144	0.012540
	287	0.010880	0.037100	0.0368800	0.016270	0.044990
	288	0.005089	0.023030	0.0305200	0.011780	0.010570
	289	0.005283	0.039080	0.0951800	0.018640	0.024010
	290	0.005704	0.025020	0.0263600	0.010320	0.017590
	291	0.011590	0.011240	0.0000000	0.000000	0.030040
	292	0.004230	0.015870	0.0116900	0.006335	0.019430
	293	0.013800	0.033480	0.0466500	0.020600	0.026890
	294	0.005833	0.013880	0.0200000	0.007087	0.019380
	295	0.003978	0.028210	0.0357600	0.014710	0.015180
	296	0.004989	0.032120	0.0357100	0.015970	0.018790
	297	0.004578	0.026160	0.0400500	0.014210	0.019480
	298	0.006494	0.018930	0.0339100	0.015210	0.013560
	299	0.007327	0.011530	0.0179800	0.007986	0.019620
##	300	0.009197	0.054700	0.0807900	0.022150	0.027730
	301	0.009406	0.030550	0.0434400	0.027940	0.031560
	302	0.003169	0.013770	0.0107900	0.005243	0.011030
	303	0.006142	0.006134	0.0018350	0.003576	0.016370
	304	0.005414	0.022650	0.0345200	0.013340	0.017050
	305	0.004766	0.023740	0.0238400	0.008637	0.017720
	306	0.005020	0.020620	0.0345700	0.010910	0.012980
	307	0.004625	0.048440	0.0735900	0.016080	0.021370
##	308	0.002887	0.012850	0.0161300	0.007308	0.018700

## 309	0.005790	0.048770	0.0530300	0.015270	0.033560
## 310	0.005851	0.023140	0.0254400	0.008360	0.018420
## 311	0.004938	0.030890	0.0409300	0.016990	0.028160
## 312	0.004757	0.015030	0.0233200	0.012620	0.013940
## 313	0.003245	0.008186	0.0169800	0.009233	0.012850
## 314	0.014180	0.014890	0.0126700	0.019100	0.026780
## 315	0.005072	0.021470	0.0218500	0.009560	0.017190
## 316	0.004942	0.012030	0.0075080	0.005179	0.014420
## 317	0.011490	0.024610	0.0568800	0.018850	0.017560
## 318	0.006428	0.028630	0.0449700	0.017160	0.015900
## 319	0.003495	0.030510	0.0344500	0.010240	0.029120
## 320	0.004732	0.015060	0.0185500	0.010670	0.021630
## 321	0.007234	0.074710	0.1114000	0.027210	0.032320
## 322	0.005776	0.024990	0.0369500	0.011950	0.027890
## 323	0.006016	0.034820	0.0423200	0.012690	0.026570
## 324	0.007803	0.025070	0.0183500	0.007711	0.012780
## 325	0.003265	0.004930	0.0064930	0.003762	0.017200
## 326	0.006471	0.016490	0.0280600	0.014200	0.023700
## 327	0.007389	0.013830	0.0073020	0.010040	0.012630
## 328	0.008699	0.039760	0.0595000	0.013900	0.014950
## 329	0.007017	0.011420	0.0194900	0.011530	0.029510
## 330	0.006292	0.019710	0.0358200	0.013010	0.014790
## 331	0.006040	0.005656	0.0000000	0.000000	0.022770
## 332	0.005910	0.013620	0.0070660	0.006502	0.022230
## 333	0.007809	0.009816	0.0109900	0.005344	0.012540
## 334	0.005343	0.005767	0.0112300	0.005051	0.019770
## 335	0.010000	0.034800	0.0657700	0.028010	0.051680
## 336	0.004291	0.012360	0.0184100	0.007373	0.009539
## 337	0.005783	0.004693	0.0007929	0.003617	0.020430
## 338	0.009549	0.086060	0.3038000	0.033220	0.041970
## 339	0.007548	0.038970	0.0391400	0.018160	0.021680
## 340	0.006034	0.018200	0.0333600	0.010670	0.011750
## 341	0.003958	0.012460	0.0183100	0.008747	0.015000
## 342	0.003872	0.018420	0.0371000	0.012000	0.019640
## 343	0.010560	0.037560	0.0583900	0.011860	0.040220
## 344	0.006663	0.059140	0.0888000	0.013140	0.019950
## 345	0.004877	0.019520	0.0221900	0.009231	0.015350

## 346	0.013850	0.029320	0.0272200	0.010230	0.032810
## 347	0.010930	0.028990	0.0321400	0.015060	0.028370
## 348	0.006664	0.017350	0.0115800	0.009520	0.022820
## 349	0.004952	0.016300	0.0296700	0.009423	0.011520
## 350	0.008320	0.020250	0.0233400	0.016650	0.020940
## 351	0.004837	0.009238	0.0092130	0.010760	0.011710
## 352	0.005627	0.030330	0.0340700	0.013540	0.019250
## 353	0.008412	0.021530	0.0389800	0.007620	0.016950
## 354	0.009113	0.015570	0.0244300	0.006435	0.015680
## 355	0.006703	0.023100	0.0231500	0.011840	0.019000
## 356	0.010520	0.017550	0.0171400	0.009333	0.022790
## 357	0.009719	0.012490	0.0079750	0.007527	0.022100
## 358	0.005517	0.017270	0.0204500	0.006747	0.016160
## 359	0.004314	0.013820	0.0225400	0.010390	0.013690
## 360	0.010940	0.018340	0.0399600	0.012820	0.037590
## 361	0.007959	0.031330	0.0425700	0.016710	0.013410
## 362	0.009769	0.031260	0.0505100	0.019920	0.029810
## 363	0.007339	0.008243	0.0000000	0.000000	0.031410
## 364	0.005682	0.013650	0.0084960	0.006929	0.019380
## 365	0.005433	0.011790	0.0113100	0.015190	0.022200
## 366	0.012150	0.041120	0.0555300	0.014940	0.018400
## 367	0.009037	0.049540	0.0520600	0.018410	0.017780
## 368	0.006588	0.012700	0.0145000	0.006104	0.015740
## 369	0.004124	0.013400	0.0100300	0.004667	0.020320
## 370	0.004649	0.018000	0.0274900	0.012670	0.013650
## 371	0.009702	0.015670	0.0257500	0.011610	0.028010
## 372	0.008738	0.039380	0.0431200	0.015600	0.041920
## 373	0.007881	0.008432	0.0070040	0.006522	0.019390
## 374	0.004911	0.016660	0.0139700	0.005161	0.014540
## 375	0.003888	0.008539	0.0125600	0.006888	0.016080
## 376	0.010390	0.010030	0.0064160	0.007895	0.028690
## 377	0.004775	0.011720	0.0194700	0.012690	0.018700
## 378	0.006715	0.037050	0.0475700	0.010510	0.018380
## 379	0.008426	0.008998	0.0014870	0.003333	0.023580
## 380	0.006662	0.012280	0.0210500	0.010060	0.016770
## 381	0.005836	0.010950	0.0058120	0.007039	0.020140
## 382	0.010170	0.014430	0.0186100	0.012500	0.034640

0.009369	0.029830	0.0537100	0.017610	0.024180
0.004185	0.028680	0.0266400	0.009067	0.017030
0.008577	0.016410	0.0209900	0.011070	0.024340
0.010270	0.030840	0.0261300	0.010970	0.022770
0.005687	0.049600	0.0632900	0.015610	0.019240
0.008875	0.009362	0.0180800	0.009199	0.017910
0.005872	0.014880	0.0264700	0.009921	0.014650
0.007394	0.012030	0.0247000	0.014310	0.013440
0.004714				0.012370
				0.019890
				0.013250
				0.014350
				0.010540
				0.016470
				0.018480
				0.024710
				0.037560
				0.018010
				0.018240
				0.012080
				0.015430
				0.012760
				0.015260
				0.014450
				0.019340
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				0.016020
				0.023830
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				0.013590
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				0.015010
				0.018730
0.008439	0.040/40	0.0090400	U.UZ530U	0.037100
	0.004185 0.008577 0.010270 0.005687 0.008875 0.005872 0.007394	0.004185 0.028680 0.008577 0.016410 0.010270 0.030840 0.005687 0.049600 0.008875 0.009362 0.005872 0.014880 0.007394 0.012030 0.004714 0.020150 0.007594 0.008878 0.007594 0.011770 0.007392 0.024490 0.003828 0.007228 0.003728 0.014150 0.005884 0.020050 0.009882 0.024440 0.004756 0.033680 0.011130 0.014630 0.008732 0.020420 0.005919 0.032700 0.005015 0.033180 0.006211 0.018950 0.004929 0.066570 0.006208 0.019060 0.01640 0.015290 0.006985 0.025630 0.011640 0.010400 0.005501 0.055920 0.003653 0.016470 0.006578 0.013800 0.005288 0.028330 0.0051	0.004185 0.028680 0.0266400 0.008577 0.016410 0.0209900 0.010270 0.030840 0.0261300 0.005687 0.049600 0.0632900 0.008875 0.009362 0.0180800 0.005872 0.014880 0.0264700 0.007394 0.012030 0.0247000 0.004714 0.020150 0.0369700 0.007594 0.008878 0.0000000 0.007392 0.024490 0.0398800 0.003828 0.007228 0.0070780 0.003728 0.014150 0.0198800 0.005884 0.02050 0.0263100 0.004756 0.033680 0.0434500 0.01130 0.014630 0.0953080 0.005919 0.032700 0.0495700 0.005919 0.032700 0.0495700 0.006211 0.018950 0.0268100 0.004929 0.066570 0.0768300 0.004929 0.066570 0.0768300 0.006040 0.015290 0.0151400 <th>0.004185 0.028680 0.0266400 0.009067 0.008577 0.016410 0.0209900 0.011070 0.010270 0.030840 0.0261300 0.010970 0.005687 0.049600 0.0632900 0.015610 0.008875 0.009362 0.0180800 0.009199 0.005872 0.014880 0.0264700 0.009921 0.004714 0.020150 0.0369700 0.011100 0.007594 0.008878 0.000000 0.000000 0.004477 0.011770 0.0107900 0.007956 0.007392 0.024490 0.0398800 0.012930 0.007392 0.024490 0.0398800 0.012930 0.003828 0.007228 0.0070780 0.005077 0.003728 0.014150 0.0198800 0.005077 0.005884 0.02050 0.0263100 0.017630 0.004756 0.033680 0.0434500 0.017630 0.004756 0.033680 0.0434500 0.010680 0.005919 0.032700</th>	0.004185 0.028680 0.0266400 0.009067 0.008577 0.016410 0.0209900 0.011070 0.010270 0.030840 0.0261300 0.010970 0.005687 0.049600 0.0632900 0.015610 0.008875 0.009362 0.0180800 0.009199 0.005872 0.014880 0.0264700 0.009921 0.004714 0.020150 0.0369700 0.011100 0.007594 0.008878 0.000000 0.000000 0.004477 0.011770 0.0107900 0.007956 0.007392 0.024490 0.0398800 0.012930 0.007392 0.024490 0.0398800 0.012930 0.003828 0.007228 0.0070780 0.005077 0.003728 0.014150 0.0198800 0.005077 0.005884 0.02050 0.0263100 0.017630 0.004756 0.033680 0.0434500 0.017630 0.004756 0.033680 0.0434500 0.010680 0.005919 0.032700

## 420	0.005427	0.036330	0.0464900	0.018430	0.056280
## 421	0.010970	0.095860	0.3960000	0.052790	0.035460
## 422	0.004675	0.010300	0.0160300	0.009222	0.010950
## 423	0.009019	0.008985	0.0119600	0.008232	0.023880
## 424	0.009783	0.045420	0.0348300	0.021880	0.025420
## 425	0.007356	0.037280	0.0591500	0.017120	0.021650
## 426	0.007781	0.026480	0.0297300	0.012900	0.016350
## 427	0.005800	0.024170	0.0078160	0.010520	0.027340
## 428	0.005756	0.016650	0.0146100	0.008281	0.015510
## 429	0.012910	0.022220	0.0041740	0.007082	0.025720
## 430	0.010150	0.045880	0.0498300	0.021270	0.018840
## 431	0.004088	0.011740	0.0179600	0.006880	0.013230
## 432	0.006176	0.018770	0.0291300	0.010460	0.015590
## 433	0.005969	0.018120	0.0200700	0.007027	0.019720
## 434	0.007974	0.032140	0.0443500	0.015730	0.016170
## 435	0.008565	0.046380	0.0643000	0.017680	0.015160
## 436	0.006692	0.011320	0.0057170	0.006627	0.014160
## 437	0.007571	0.011140	0.0262300	0.014630	0.019300
## 438	0.005298	0.015870	0.0232100	0.008420	0.018530
## 439	0.010110	0.010550	0.0198100	0.005742	0.020900
## 440	0.009433	0.024050	0.0416700	0.011520	0.033970
## 441	0.005727	0.032550	0.0439300	0.009811	0.027510
## 442	0.005868	0.020990	0.0202100	0.009064	0.020870
## 443	0.009250	0.037150	0.0486700	0.018510	0.014980
## 444	0.004450	0.014520	0.0133400	0.008791	0.016980
## 445	0.004860	0.027850	0.0260200	0.013740	0.012260
## 446	0.009606	0.014320	0.0198500	0.014210	0.020270
## 447	0.004351	0.026670	0.0337100	0.010070	0.025980
## 448	0.004729	0.006887	0.0011840	0.003951	0.014660
## 449	0.008872	0.041920	0.0594600	0.017850	0.027930
## 450	0.008740	0.022190	0.0272100	0.014580	0.020450
## 451	0.006513	0.008061	0.0028170	0.004972	0.015020
## 452	0.009098	0.038450	0.0376300	0.013210	0.018780
## 453	0.011240	0.040970	0.0746900	0.034410	0.027680
## 454	0.006854	0.060630	0.0666300	0.015530	0.023540
## 455	0.009895	0.030530	0.0163000	0.009276	0.022580
## 456	0.005706	0.022970	0.0311400	0.014930	0.014540

## 457	0.013400	0.028390	0.0116200	0.008239	0.025720
## 458	0.004551	0.014780	0.0214300	0.009280	0.013670
## 459	0.009172	0.008007	0.0000000	0.000000	0.027110
## 460	0.003418	0.002252	0.0015950	0.001852	0.016130
## 461	0.007650	0.053740	0.0805500	0.025980	0.016970
## 462	0.008074	0.040880	0.0532100	0.018340	0.023830
## 463	0.005296	0.019030	0.0172300	0.006960	0.018800
## 464	0.006432	0.011560	0.0077410	0.005657	0.012270
## 465	0.008029	0.037990	0.0373200	0.023970	0.023080
## 466	0.010000	0.032950	0.0486100	0.011670	0.021870
## 467	0.003632	0.007861	0.0011280	0.002386	0.013440
## 468	0.004117	0.015600	0.0297500	0.009753	0.012950
## 469	0.010490	0.042650	0.0400400	0.015440	0.027190
## 470	0.007976	0.012950	0.0160800	0.009046	0.020050
## 471	0.004571	0.017900	0.0217600	0.017570	0.033730
## 472	0.003634	0.007983	0.0082680	0.006432	0.019240
## 473	0.004352	0.004899	0.0134300	0.011640	0.026710
## 474	0.005539	0.026440	0.0266400	0.010780	0.013320
## 475	0.007517	0.015550	0.0146500	0.011830	0.020470
## 476	0.004821	0.016590	0.0240800	0.011430	0.012750
## 477	0.005042	0.045600	0.0430500	0.016670	0.024700
## 478	0.005467	0.020750	0.0318500	0.014660	0.010290
## 479	0.005332	0.021150	0.0153600	0.011870	0.015220
## 480	0.009680	0.038560	0.0347600	0.016160	0.024340
## 481	0.003818	0.012760	0.0288200	0.012000	0.019100
## 482	0.008005	0.028950	0.0332100	0.014240	0.014620
## 483	0.006248	0.033740	0.0519600	0.011580	0.020070
## 484	0.012860	0.088080	0.1197000	0.024600	0.038800
## 485	0.006583	0.006991	0.0059490	0.006296	0.022160
## 486	0.009329	0.065590	0.0995300	0.022830	0.055430
## 487	0.007501	0.019890	0.0271400	0.009883	0.019600
## 488	0.006515	0.086680	0.1040000	0.024800	0.031120
## 489	0.007802	0.020520	0.0134100	0.005564	0.020860
## 490	0.007405	0.045490	0.0458800	0.013390	0.017380
## 491	0.007997	0.027000	0.0373700	0.016480	0.028970
## 492	0.006522	0.061580	0.0711700	0.016640	0.023240
## 493	0.005393	0.023210	0.0430300	0.013200	0.017920

## 494	0.009501	0.033780	0.0440100	0.013460	0.013220
## 495	0.011930	0.031620	0.0300000	0.009259	0.033570
## 496	0.005273	0.023290	0.0140500	0.012440	0.018160
## 497	0.009058	0.021960	0.0302900	0.011120	0.016090
## 498	0.003350	0.013840	0.0145200	0.006853	0.011130
## 499	0.006356	0.047650	0.0386300	0.015190	0.019360
## 500	0.005345	0.025560	0.0288900	0.010220	0.009947
## 501	0.002667	0.014460	0.0142300	0.005297	0.019610
## 502	0.004029	0.009269	0.0110100	0.007591	0.014600
## 503	0.007026	0.025010	0.0318800	0.012970	0.016890
## 504	0.008499	0.076430	0.1535000	0.029190	0.016170
## 505	0.014590	0.032060	0.0496100	0.018410	0.018070
## 506	0.004359	0.006813	0.0032230	0.003419	0.019160
## 507	0.003492	0.003710	0.0048260	0.003608	0.015360
## 508	0.006708	0.011970	0.0148200	0.010560	0.015800
## 509	0.006399	0.043100	0.0784500	0.026240	0.020570
## 510	0.008198	0.038890	0.0449300	0.021390	0.020180
## 511	0.004097	0.018980	0.0169800	0.006490	0.016780
## 512	0.005444	0.011690	0.0162200	0.008522	0.014190
## 513	0.005551	0.034140	0.0420500	0.010440	0.022730
## 514	0.004133	0.016950	0.0165200	0.006659	0.013710
## 515	0.005635	0.039170	0.0607200	0.016560	0.031970
## 516	0.006983	0.038580	0.0468300	0.014990	0.016800
## 517	0.005225	0.013080	0.0186000	0.013400	0.013890
## 518	0.006150	0.040060	0.0383200	0.020580	0.022500
## 519	0.003899	0.029610	0.0281700	0.009222	0.026740
## 520	0.005251	0.030410	0.0252600	0.008304	0.025140
## 521	0.007364	0.038670	0.0526300	0.012640	0.021610
## 522	0.006953	0.019110	0.0270100	0.010370	0.017820
## 523	0.006831	0.014270	0.0248900	0.009087	0.031510
## 524	0.007189	0.004660	0.0000000	0.000000	0.026760
## 525	0.010190	0.010840	0.0000000	0.000000	0.026590
## 526	0.005518	0.021780	0.0258900	0.006330	0.025930
## 527	0.005169	0.022940	0.0301600	0.008691	0.013650
## 528	0.004024	0.008422	0.0229100	0.009863	0.050140
## 529	0.006538	0.013950	0.0137600	0.009924	0.034160
## 530	0.010980	0.012570	0.0103100	0.003934	0.026930

0.006719	0.051560	0.0438700	0.016330	0.018720
0.015470	0.064570	0.0925200	0.013640	0.021050
0.007337	0.011740	0.0053830	0.005623	0.019400
0.006627	0.040940	0.0537100	0.018130	0.016820
0.005033	0.031790	0.0475500	0.010430	0.015780
0.004873	0.017960	0.0331800	0.008360	0.016010
0.008328	0.008722	0.0134900	0.008670	0.032180
0.006064	0.009110	0.0104200	0.007638	0.023490
0.006298	0.021720		0.009061	0.014900
				0.016510
				0.022940
				0.039970
				0.025710
				0.027680
				0.078950
				0.026250
				0.023840
				0.019090
				0.020800
				0.014280
				0.026690
				0.031020
				0.017890
				0.018350
				0.013470
				0.020450
				0.022920
				0.026530
				0.030820
				0.022540
				0.020280
				0.013330
				0.014140
				0.012020
				0.010930
				0.036750
0.003290	0.013930	0.01//400	0.000009	0.011720
	0.015470 0.007337 0.006627 0.005033 0.004873 0.008328 0.006064	0.015470 0.007337 0.011740 0.006627 0.040940 0.005033 0.031790 0.004873 0.017960 0.008328 0.008722 0.006064 0.009110 0.006298 0.021720 0.006153 0.013300 0.005038 0.015030 0.015460 0.025400 0.006383 0.008008 0.005485 0.024310 0.010380 0.068350 0.008725 0.020030 0.018350 0.067600 0.005608 0.016460 0.007256 0.026780 0.005488 0.014270 0.005488 0.014270 0.005541 0.033870 0.007149 0.072170 0.006587 0.018150 0.005768 0.008082 0.005768 0.008082 0.005769 0.052440 0.014960 0.01710 0.005878 0.029950 0.005403 0.014180 0.005969 0.014930 0.017360 0.046710	0.015470 0.064570 0.0925200 0.007337 0.011740 0.0053830 0.006627 0.040940 0.0537100 0.005033 0.017960 0.0331800 0.004873 0.017960 0.0331800 0.008328 0.008722 0.0134900 0.006064 0.009110 0.0164200 0.006298 0.021720 0.0261500 0.005153 0.013300 0.0169300 0.05038 0.015030 0.0194600 0.05038 0.015030 0.0194600 0.015460 0.025400 0.0219700 0.006383 0.09808 0.0018600 0.010380 0.068350 0.1091000 0.010380 0.068350 0.1091000 0.018350 0.067600 0.0926300 0.018350 0.067600 0.0926300 0.005488 0.016460 0.0152900 0.005488 0.014270 0.0232200 0.005488 0.014270 0.0232200 0.005488 0.014270 0.0774300	0.015470 0.064570 0.0925200 0.013640 0.007337 0.011740 0.0053830 0.005623 0.006627 0.040940 0.0537100 0.018130 0.005033 0.031790 0.0475500 0.010430 0.004873 0.017960 0.0331800 0.008670 0.066064 0.009110 0.0104200 0.007638 0.006298 0.021720 0.0261500 0.009061 0.006153 0.013300 0.0169300 0.006884 0.005038 0.015030 0.0194600 0.011230 0.015460 0.025400 0.0219700 0.015800 0.006383 0.008008 0.0018600 0.002924 0.005485 0.024310 0.0319000 0.013690 0.010380 0.068350 0.1091000 0.025930 0.008725 0.020030 0.0233500 0.011320 0.018350 0.067600 0.0926300 0.023080 0.005488 0.014270 0.0232200 0.005660 0.005488 0.014270

## 5		0.006133				0.022070
## 5		0.004426				0.016750
##		—	_	exture_worst pe	_	_
## 1		0.0022480	13.500	15.64	86.97	
## 2		0.0033180	11.880	22.94	78.28	
## 3		0.0021980	12.410	26.44	79.93	
## 4		0.0034420	11.920	15.77	76.53	
## 5		0.0017670	16.200	15.73	104.50	
## 6		0.0033390	13.070	26.98	86.43	
## 7		0.0047380	12.480	37.16	82.28	
## 8		0.0045060	19.200	41.85	128.50	
## 9		0.0034510	11.540	23.31	74.22	
## 1		0.0029170	11.920	19.90	79.76	
## 1		0.0037270	23.860	30.76	163.20	
## 1		0.0024840	13.590	25.22	86.60	
## 1		0.0032300	14.800	25.46	100.90	
## 1		0.0029900	14.230	22.25	90.24	
## 1		0.0018070	21.440	30.96	139.80	
## 1		0.0044060	15.480	27.27	105.90	
## 1		0.0023300	17.500	19.25	114.30	
## 1		0.0017840	13.710	21.10	88.70	
## 1		0.0059280	23.680	29.43	158.80	
## 2		0.0041430	13.340	17.81	91.38	
## 2		0.0016710	13.010	21.39	84.42	
## 2		0.0058240	12.980	32.19	86.12	
## 2		0.0027010	12.400	25.58	82.76	
## 2		0.0049840	16.110	18.33	105.90	
## 2		0.0067920	11.160	22.75	72.62	
## 2		0.0031300	16.570	20.86	110.30	
## 2		0.0018170	15.100	25.94	97.59	
## 2		0.0029670	20.270	36.71	149.30	
## 2		0.0040310	10.750	23.07	71.25	
## 3		0.0020740	14.730	21.70	93.76	
## 3		0.0022730	14.730	17.40	93.96	
## 3		0.0026290	14.490	33.37	92.04	
## 3		0.0113000	21.570	28.87	143.60	
## 3	34	0.0022670	14.100	28.88	89.00	610.2

##	35	0.0022810	16.760	17.24	108.50	862.0
##	36	0.0048680	14.540	19.64	97.96	657.0
##	37	0.0016980	24.860	26.58	165.90	1866.0
##	38	0.0094230	13.150	16.51	86.26	509.6
##	39	0.0034930	20.050	26.30	130.70	1260.0
##	40	0.0040810	18.550	25.09	126.90	1031.0
##	41	0.0018920	24.330	39.16	162.30	1844.0
##	42	0.0033180	26.730	26.39	174.90	2232.0
##	43	0.0092080	14.910	26.50	98.87	567.7
##	44	0.0057010	13.720	16.91	87.38	576.0
##	45	0.0020950	15.140	21.80	101.20	718.9
##	46	0.0050360	19.760	24.70	129.10	1228.0
##	47	0.0023770	11.680	20.29	74.35	421.1
##	48	0.0033850	33.130	23.58	229.30	3234.0
##	49	0.0024640	14.800	27.20	97.33	675.2
##	50	0.0046510	13.460	23.07	88.13	551.3
##	51	0.0045600	15.750	26.93	104.40	750.1
##	52	0.0032040	16.410	19.31	114.20	808.2
##	53	0.0030710	13.450	24.49	86.00	562.0
##	54	0.0035890	15.750	40.54	102.50	764.0
##		0.0051950	25.120	32.68	177.00	1986.0
##		0.0046030	15.530	23.19	96.66	614.9
##	57	0.0068220	12.450	17.60	81.25	473.8
##		0.0034700	11.870	21.18	75.39	437.0
##	59	0.0098750	26.020	23.99	180.90	2073.0
##	60	0.0019650	23.790	28.65	152.40	1628.0
##	61	0.0076460	24.090	33.17	177.40	1651.0
##	62	0.0051200	23.140	32.33	155.30	1660.0
##	63	0.0125600	18.070	28.07	120.40	1021.0
##	64	0.0012860	15.930	30.25	102.50	787.9
##	65	0.0043940	18.070	19.08	125.10	980.9
##	66	0.0053480	13.580	28.68	87.36	553.0
##	67	0.0024960	15.140	23.60	98.84	708.8
##	68	0.0008948	16.460	21.75	103.70	840.8
##	69	0.0015930	14.980	21.74	98.37	670.0
##	70	0.0026710	13.350	28.81	87.00	550.6
##	71	0.0031870	15.530	26.02	107.30	740.4

##	72	0.0027780	11.160	26.84	71.98	384.0
##	73	0.0078770	10.060	23.40	68.62	297.1
##	74	0.0013090	19.820	18.42	127.10	1210.0
##	75	0.0015190	18.220	28.07	120.30	1032.0
##	76	0.0044630	13.830	30.50	91.46	574.7
##	77	0.0010870	21.310	26.36	139.20	1410.0
##	78	0.0021460	12.330	23.84	78.00	466.7
##	79	0.0043920	14.190	16.40	92.04	618.8
##	80	0.0033360	21.080	25.41	138.10	1349.0
##	81	0.0017060	16.110	23.00	104.60	793.7
##	82	0.0017250	13.350	19.59	86.65	546.7
##	83	0.0019560	14.200	29.20	92.94	621.2
##	84	0.0048410	16.340	18.24	109.40	803.6
##	85	0.0037210	12.840	20.53	84.93	476.1
##	86	0.0020810	13.620	15.54	87.40	577.0
##	87	0.0013660	13.610	19.27	87.22	564.9
##	88	0.0029850	15.050	41.61	96.69	705.6
##	89	0.0019870	29.170	35.59	188.00	2615.0
##	90	0.0037470	15.110	25.63	99.43	701.9
##	91	0.0033510	13.630	16.15	86.70	570.7
##		0.0015410	14.060	24.34	92.82	607.3
##		0.0013450	17.910	31.67	115.90	988.6
##	94	0.0015140	14.340	31.88	91.06	628.5
##		0.0117200	15.740	37.18	106.40	762.4
##	96	0.0031210	18.760	21.98	124.30	1070.0
##	97	0.0037050	14.130	24.61	96.31	621.9
##	98	0.0017840	13.060	25.75	84.35	517.8
##	99	0.0037610	11.170	22.84	71.94	375.6
##	100	0.0058930	30.000	33.62	211.70	2562.0
##	101	0.0076100	11.690	25.21	76.51	410.4
	102	0.0016880	9.968	20.83	62.25	303.8
	103	0.0028170	12.320	16.18	78.27	457.5
	104	0.0020850	19.070	30.88	123.40	1138.0
	105	0.0022500	13.940	27.82	88.28	602.0
	106	0.0036140	12.400	21.90	82.04	467.6
	107	0.0042050	13.370	22.43	89.02	547.4
##	108	0.0038130	13.160	24.17	85.13	515.3

0.0029770	13.030	31.45	83.90	505.6
0.0020600	12.360	28.92	79.26	458.0
0.0038400	13.140	29.26	85.51	521.7
0.0117800	9.092	29.72	58.08	249.8
0.0045700	22.250	24.90	145.40	1549.0
4 0.0080930	15.030	32.01	108.80	697.7
0.0017690	12.980	25.72	82.98	516.5
0.0037390	20.380	35.46	132.80	1284.0
7 0.0019760	18.330	30.12	117.90	1044.0
0.0042320	21.200	29.41	142.10	1359.0
	25.730		170.30	2009.0
	14.190	24.85	94.22	591.2
				725.9
				1656.0
				476.5
				3143.0
				475.8
				489.8
				827.2
				758.2
				1538.0
				728.3
				832.7
				708.8
				629.6
				2027.0
				411.1
				2215.0
				317.0
				532.8
				1362.0
				527.2
				1403.0
				2019.0
				1731.0
				959.5
0.003/110	17.020	33.21	122.40	896.9
	0.0020600 1.0038400 2.0.0117800 3.0.0045700 4.0.0080930 5.0.0017690 6.0.0037390 7.0.0019760 8.0.0042320 9.0040450	0 0.0020600 12.360 1 0.0038400 13.140 2 0.0117800 9.092 3 0.0045700 22.250 4 0.0080930 15.030 5 0.0017690 12.980 6 0.0037390 20.380 7 0.0019760 18.330 8 0.0042320 21.200 9 0.0040450 25.730 9 0.0057150 14.190 1 0.0017080 15.490 2 0.0023650 23.240 3 0.0022110 12.440 4 0.0018030 30.750 5 0.0030090 12.510 6 0.0034110 12.680 7 0.0070980 16.310 8 0.0028710 15.790 9 0.0026860 22.320 1 0.0037560 15.290 1 0.0042390 25.450 2 0.0083130 11.690 3 0.0025300 13.140 9 0.00253	9 0.0020600 12.360 28.92 1 0.0038400 13.140 29.26 2 0.0117800 9.092 29.72 3 0.0045700 22.250 24.90 4 0.0080930 15.030 32.01 5 0.0017690 12.980 25.72 6 0.0037390 20.380 35.46 7 0.0019760 18.330 30.12 8 0.0042320 21.200 29.41 9 0.0040450 25.730 28.64 9 0.0057150 14.190 24.85 1 0.0017080 15.490 23.58 2 0.0023650 23.240 27.84 3 0.0022110 12.440 31.62 4 0.018030 30.750 26.44 5 0.003410 12.680 21.61 6 0.003410 12.680 21.61 7 0.007980 16.310 22.40 8 0.0028710 15.790 31.71 9 0.0037560 15	0 0.0020600 12.360 28.92 79.26 1 0.0038400 13.140 29.26 85.51 2 0.0117800 9.092 29.72 58.08 3 0.0045700 22.250 24.90 145.40 4 0.0080930 15.030 32.01 108.80 5 0.0017690 12.980 25.72 82.98 6 0.0037390 20.380 35.46 132.80 7 0.0019760 18.330 30.12 117.90 8 0.0042320 21.200 29.41 142.10 9 0.004450 25.730 28.64 170.30 9 0.0057150 14.190 24.85 94.22 1 0.0017080 15.490 23.58 100.30 2 0.0023650 23.240 27.84 158.30 3 0.0022110 12.440 31.62 81.39 4 0.0018030 30.750 26.44 199.50

146	0.0019880	12.570	26.48	79.57	489.5
147	0.0041440	20.420	27.28	136.50	1299.0
148	0.0020010	18.130	25.45	117.20	1009.0
149	0.0029610	12.900	20.21	81.76	515.9
150	0.0013560	13.290	27.49	85.56	544.1
151	0.0013440	13.340	19.71	84.48	544.2
152	0.0042250	11.210	23.17	71.79	380.9
153	0.0018870	14.480	21.82	97.17	643.8
154	0.0026060	11.250	21.77	71.12	384.9
	0.0228600	15.770	22.13	101.70	767.3
	0.0027130	12.020		75.79	439.6
	0.0011260	15.500	26.10	98.91	739.1
					514.0
					366.3
					698.8
					830.6
					437.6
					694.4
					285.5
					2782.0
					3216.0
					873.2
					1295.0
					677.3
					725.9
					759.4
					869.3
					897.0
					661.5
					993.6
					622.1
					2145.0
					496.7
					1567.0
					547.8
					638.4
107	0.0019480	19.//0	24.30	120.00	1223.0
	149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180	147 0.0041440 148 0.0020010 149 0.0029610 150 0.0013560 151 0.0013440 152 0.0042250 153 0.0018870 154 0.0026060 155 0.0228600 156 0.0027130 157 0.0011260 158 0.0030400 159 0.0044920 160 0.0019560 161 0.0014350 162 0.0065170 163 0.0020870 164 0.0021530 165 0.0028970 166 0.0027470 167 0.0014630 168 0.0058380 169 0.0034790 170 0.0028460 173 0.0028460 174 0.0030090 175 0.0018680 176 0.0028480 177 0.0026080 178 0.0035370 179 0.0035350 180 0.0015320 <td< th=""><th>147 0.0041440 20.420 148 0.0020010 18.130 149 0.0029610 12.900 150 0.0013560 13.290 151 0.0013440 13.340 152 0.0042250 11.210 153 0.0018870 14.480 154 0.0026060 11.250 155 0.0228600 15.770 156 0.0027130 12.020 157 0.0011260 15.500 158 0.0030400 12.840 159 0.0044920 10.940 160 0.0019560 15.150 161 0.004350 16.360 162 0.0065170 11.860 163 0.0020870 15.110 164 0.0021530 9.699 165 0.0028970 30.790 166 0.0027470 33.120 167 0.0014630 16.770 168 0.0058380 20.390 169 0.0034790 14.770 170 0.0028460 17.040 <!--</th--><th>147 0.0041440 20.420 27.28 148 0.0020010 18.130 25.45 149 0.0029610 12.900 20.21 150 0.0013560 13.290 27.49 151 0.0013440 13.340 19.71 152 0.0042250 11.210 23.17 153 0.0018870 14.480 21.82 154 0.0026060 11.250 21.77 155 0.0228600 15.770 22.13 156 0.0027130 12.020 25.02 157 0.0011260 15.500 26.10 158 0.0030400 12.840 35.34 159 0.0044920 10.940 23.31 160 0.0019560 15.150 31.82 161 0.0014350 16.360 22.35 162 0.0065170 11.860 22.33 163 0.0020870 15.110 25.58 164 0.002130 9.699 20.07 165 0.0028970 30.790 23.87 167</th><th>147 0.0041440 20.420 27.28 136.50 148 0.002010 18.130 25.45 117.20 149 0.0029610 12.900 20.21 81.76 150 0.0013560 13.290 27.49 85.56 151 0.0013440 13.340 19.71 84.48 152 0.0042250 11.210 23.17 71.79 153 0.0018870 14.480 21.82 97.17 154 0.0026660 11.250 21.77 71.12 155 0.0228600 15.770 22.13 101.70 156 0.0027130 12.020 25.02 75.79 157 0.0011260 15.500 26.10 98.91 158 0.0030400 12.840 35.34 87.22 159 0.0044920 10.940 23.31 69.35 160 0.0019560 15.150 31.82 99.00 161 0.0014350 16.360 22.35 104.50<!--</th--></th></th></td<>	147 0.0041440 20.420 148 0.0020010 18.130 149 0.0029610 12.900 150 0.0013560 13.290 151 0.0013440 13.340 152 0.0042250 11.210 153 0.0018870 14.480 154 0.0026060 11.250 155 0.0228600 15.770 156 0.0027130 12.020 157 0.0011260 15.500 158 0.0030400 12.840 159 0.0044920 10.940 160 0.0019560 15.150 161 0.004350 16.360 162 0.0065170 11.860 163 0.0020870 15.110 164 0.0021530 9.699 165 0.0028970 30.790 166 0.0027470 33.120 167 0.0014630 16.770 168 0.0058380 20.390 169 0.0034790 14.770 170 0.0028460 17.040 </th <th>147 0.0041440 20.420 27.28 148 0.0020010 18.130 25.45 149 0.0029610 12.900 20.21 150 0.0013560 13.290 27.49 151 0.0013440 13.340 19.71 152 0.0042250 11.210 23.17 153 0.0018870 14.480 21.82 154 0.0026060 11.250 21.77 155 0.0228600 15.770 22.13 156 0.0027130 12.020 25.02 157 0.0011260 15.500 26.10 158 0.0030400 12.840 35.34 159 0.0044920 10.940 23.31 160 0.0019560 15.150 31.82 161 0.0014350 16.360 22.35 162 0.0065170 11.860 22.33 163 0.0020870 15.110 25.58 164 0.002130 9.699 20.07 165 0.0028970 30.790 23.87 167</th> <th>147 0.0041440 20.420 27.28 136.50 148 0.002010 18.130 25.45 117.20 149 0.0029610 12.900 20.21 81.76 150 0.0013560 13.290 27.49 85.56 151 0.0013440 13.340 19.71 84.48 152 0.0042250 11.210 23.17 71.79 153 0.0018870 14.480 21.82 97.17 154 0.0026660 11.250 21.77 71.12 155 0.0228600 15.770 22.13 101.70 156 0.0027130 12.020 25.02 75.79 157 0.0011260 15.500 26.10 98.91 158 0.0030400 12.840 35.34 87.22 159 0.0044920 10.940 23.31 69.35 160 0.0019560 15.150 31.82 99.00 161 0.0014350 16.360 22.35 104.50<!--</th--></th>	147 0.0041440 20.420 27.28 148 0.0020010 18.130 25.45 149 0.0029610 12.900 20.21 150 0.0013560 13.290 27.49 151 0.0013440 13.340 19.71 152 0.0042250 11.210 23.17 153 0.0018870 14.480 21.82 154 0.0026060 11.250 21.77 155 0.0228600 15.770 22.13 156 0.0027130 12.020 25.02 157 0.0011260 15.500 26.10 158 0.0030400 12.840 35.34 159 0.0044920 10.940 23.31 160 0.0019560 15.150 31.82 161 0.0014350 16.360 22.35 162 0.0065170 11.860 22.33 163 0.0020870 15.110 25.58 164 0.002130 9.699 20.07 165 0.0028970 30.790 23.87 167	147 0.0041440 20.420 27.28 136.50 148 0.002010 18.130 25.45 117.20 149 0.0029610 12.900 20.21 81.76 150 0.0013560 13.290 27.49 85.56 151 0.0013440 13.340 19.71 84.48 152 0.0042250 11.210 23.17 71.79 153 0.0018870 14.480 21.82 97.17 154 0.0026660 11.250 21.77 71.12 155 0.0228600 15.770 22.13 101.70 156 0.0027130 12.020 25.02 75.79 157 0.0011260 15.500 26.10 98.91 158 0.0030400 12.840 35.34 87.22 159 0.0044920 10.940 23.31 69.35 160 0.0019560 15.150 31.82 99.00 161 0.0014350 16.360 22.35 104.50 </th

##	183	0.0018020	14.670	16.93	94.17	661.1
##	184	0.0028810	17.770	20.24	117.70	989.5
##	185	0.0019630	11.980	25.78	76.91	436.1
##	186	0.0034280	11.370	14.82	72.42	392.2
##	187	0.0023360	19.590	24.89	133.50	1189.0
##	188	0.0022050	22.520	31.39	145.60	1590.0
##	189	0.0015890	23.060	23.03	150.20	1657.0
##	190	0.0042610	10.750	20.88	68.09	355.2
##	191	0.0034340	19.920	25.27	129.00	1233.0
	192	0.0018570	13.800	20.14	87.64	589.5
	193	0.0023790	17.180	18.22	112.00	906.6
	194	0.0054660	17.460	37.13	124.10	943.2
	195	0.0024300	20.110	32.82	129.30	1269.0
	196	0.0103900	20.330	32.72	141.30	1298.0
	197	0.0048670	18.510	33.22	121.20	1050.0
	198	0.0028930	16.110	29.11	102.90	803.7
	199	0.0017870	15.350	25.16	101.90	719.8
	200	0.0046220	13.130	19.29	87.65	529.9
	201	0.0017540	14.990	25.20	95.54	698.8
	202	0.0026900	12.760	32.04	83.69	489.5
	203	0.0040150	16.760	31.55	110.20	867.1
	204	0.0058910	13.330	25.47	89.00	527.4
	205	0.0031000	13.060	18.16	84.16	516.4
	206	0.0060000	17.110	36.33	117.70	909.4
	207	0.0027680	12.770	24.02	82.68	495.1
	208	0.0027580	13.360	23.39	85.10	553.6
	209	0.0015660	14.970	16.94	95.48	698.7
	210	0.0052950	26.680	33.48	176.50	2089.0
	211	0.0036960	13.900	19.69	92.12	595.6
	212	0.0041080	17.870	30.70	115.70	985.5
	213	0.0062990	23.320	33.82	151.60	1681.0
	214	0.0026130	14.240	17.37	96.59	623.7
	215	0.0046720	11.940	19.35	80.78	433.1
	216	0.0059530	11.020	17.45	69.86	368.6
	217	0.0036290	14.450	21.74	93.63	624.1
	218	0.0027440	16.450	27.26	112.10	828.5
##	219	0.0050820	15.470	23.75	103.40	741.6

220	0.0037400	28.010	28.22	184.20	2403.0
221	0.0013920	13.500	17.48	88.54	553.7
222	0.0044140	13.650	16.92	88.12	566.9
223	0.0047870	25.930	26.24	171.10	2053.0
224	0.0039760	13.110	32.16	84.53	525.1
225	0.0010020	11.540	19.20	73.20	408.3
226	0.0068200	8.952	22.44	56.65	240.1
227	0.0114800	10.600	18.04	69.47	328.1
228	0.0040050	22.030	25.07	146.00	1479.0
	0.0026580	20.420	25.84	139.50	1239.0
	0.0020300	12.760		82.08	492.7
	0.0021280	13.120	38.81	86.04	527.8
					533.1
					709.0
					1121.0
					594.7
					549.8
					784.7
					275.6
					455.7
					402.8
					826.0
					284.4
					301.0
					1218.0
					1933.0
					364.2
					376.3
					808.9
					242.2
					523.7
					856.9
					1226.0
					450.0
					1304.0
					653.3
250	U.UU43900	שכמ. שב	31.24	08./3	359.4
	220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256	221 0.0013920 222 0.0044140 223 0.0047870 224 0.0039760 225 0.0010020 226 0.0068200 227 0.0114800 228 0.0040050 229 0.0026580 230 0.0020300 231 0.0021280 232 0.0014320 233 0.0129800 234 0.0027890 235 0.0017260 236 0.0032130 237 0.0043120 238 0.0039250 239 0.0026190 240 0.0035600 241 0.0026950 242 0.0038060 243 0.0045830 244 0.0015780 245 0.0072590 246 0.0041540 247 0.0024110 248 0.0061110 249 0.0025820 250 0.0043020 251 0.0050990 252 0.0060420 <td< th=""><th>221 0.0013920 13.500 222 0.0044140 13.650 223 0.0047870 25.930 224 0.0039760 13.110 225 0.0010020 11.540 226 0.0068200 8.952 227 0.0114800 10.600 228 0.0040050 22.030 229 0.0026580 20.420 230 0.0020300 12.760 231 0.0021280 13.120 232 0.0014320 13.180 233 0.0129800 15.300 234 0.0027890 19.280 235 0.0017260 13.870 236 0.0032130 13.320 237 0.0043120 16.080 238 0.0039250 9.473 239 0.0026190 12.250 240 0.0035600 11.480 241 0.0026950 16.390 242 0.0038060 9.628 243 0.0045830 9.965 244 0.0015780 19.850 <th>221 0.0013920 13.500 17.48 222 0.0044140 13.650 16.92 223 0.0047870 25.930 26.24 224 0.0039760 13.110 32.16 225 0.0010020 11.540 19.20 226 0.0068200 8.952 22.44 227 0.0114800 10.600 18.04 228 0.0040050 22.030 25.07 229 0.0026580 20.420 25.84 230 0.0021280 13.120 38.81 231 0.0021280 13.120 38.81 232 0.0014320 13.180 16.85 233 0.0129800 15.300 23.73 234 0.0027890 19.280 30.38 235 0.0017260 13.870 36.00 236 0.0032130 13.320 21.59 237 0.0043120 16.080 27.78 238 0.0026190 12.250 35.19 240 0.0035600 11.480 29.46 24</th><th>221 0.0013920 13.500 17.48 88.54 222 0.0044140 13.650 16.92 88.12 223 0.0047870 25.930 26.24 171.10 224 0.0039760 13.110 32.16 84.53 225 0.0010020 11.540 19.20 73.20 226 0.0068200 8.952 22.44 56.65 227 0.0114800 10.600 18.04 69.47 228 0.0040050 22.030 25.07 146.00 229 0.0026580 20.420 25.84 139.50 230 0.0020300 12.760 22.06 82.08 231 0.0021280 13.120 38.81 86.04 232 0.0014320 13.180 16.85 84.11 233 0.0129800 15.300 23.73 107.00 234 0.0027890 19.280 30.38 129.80 235 0.0017260 13.870 36.00 88.10<</th></th></td<>	221 0.0013920 13.500 222 0.0044140 13.650 223 0.0047870 25.930 224 0.0039760 13.110 225 0.0010020 11.540 226 0.0068200 8.952 227 0.0114800 10.600 228 0.0040050 22.030 229 0.0026580 20.420 230 0.0020300 12.760 231 0.0021280 13.120 232 0.0014320 13.180 233 0.0129800 15.300 234 0.0027890 19.280 235 0.0017260 13.870 236 0.0032130 13.320 237 0.0043120 16.080 238 0.0039250 9.473 239 0.0026190 12.250 240 0.0035600 11.480 241 0.0026950 16.390 242 0.0038060 9.628 243 0.0045830 9.965 244 0.0015780 19.850 <th>221 0.0013920 13.500 17.48 222 0.0044140 13.650 16.92 223 0.0047870 25.930 26.24 224 0.0039760 13.110 32.16 225 0.0010020 11.540 19.20 226 0.0068200 8.952 22.44 227 0.0114800 10.600 18.04 228 0.0040050 22.030 25.07 229 0.0026580 20.420 25.84 230 0.0021280 13.120 38.81 231 0.0021280 13.120 38.81 232 0.0014320 13.180 16.85 233 0.0129800 15.300 23.73 234 0.0027890 19.280 30.38 235 0.0017260 13.870 36.00 236 0.0032130 13.320 21.59 237 0.0043120 16.080 27.78 238 0.0026190 12.250 35.19 240 0.0035600 11.480 29.46 24</th> <th>221 0.0013920 13.500 17.48 88.54 222 0.0044140 13.650 16.92 88.12 223 0.0047870 25.930 26.24 171.10 224 0.0039760 13.110 32.16 84.53 225 0.0010020 11.540 19.20 73.20 226 0.0068200 8.952 22.44 56.65 227 0.0114800 10.600 18.04 69.47 228 0.0040050 22.030 25.07 146.00 229 0.0026580 20.420 25.84 139.50 230 0.0020300 12.760 22.06 82.08 231 0.0021280 13.120 38.81 86.04 232 0.0014320 13.180 16.85 84.11 233 0.0129800 15.300 23.73 107.00 234 0.0027890 19.280 30.38 129.80 235 0.0017260 13.870 36.00 88.10<</th>	221 0.0013920 13.500 17.48 222 0.0044140 13.650 16.92 223 0.0047870 25.930 26.24 224 0.0039760 13.110 32.16 225 0.0010020 11.540 19.20 226 0.0068200 8.952 22.44 227 0.0114800 10.600 18.04 228 0.0040050 22.030 25.07 229 0.0026580 20.420 25.84 230 0.0021280 13.120 38.81 231 0.0021280 13.120 38.81 232 0.0014320 13.180 16.85 233 0.0129800 15.300 23.73 234 0.0027890 19.280 30.38 235 0.0017260 13.870 36.00 236 0.0032130 13.320 21.59 237 0.0043120 16.080 27.78 238 0.0026190 12.250 35.19 240 0.0035600 11.480 29.46 24	221 0.0013920 13.500 17.48 88.54 222 0.0044140 13.650 16.92 88.12 223 0.0047870 25.930 26.24 171.10 224 0.0039760 13.110 32.16 84.53 225 0.0010020 11.540 19.20 73.20 226 0.0068200 8.952 22.44 56.65 227 0.0114800 10.600 18.04 69.47 228 0.0040050 22.030 25.07 146.00 229 0.0026580 20.420 25.84 139.50 230 0.0020300 12.760 22.06 82.08 231 0.0021280 13.120 38.81 86.04 232 0.0014320 13.180 16.85 84.11 233 0.0129800 15.300 23.73 107.00 234 0.0027890 19.280 30.38 129.80 235 0.0017260 13.870 36.00 88.10<

##	257	0.0023270	16.300	28.39	108.10	830.5
##	258	0.0016590	13.050	36.32	85.07	521.3
##	259	0.0019060	13.460	19.76	85.67	554.9
##	260	0.0023000	15.110	19.26	99.70	711.2
##	261	0.0017980	13.560	25.80	88.33	559.5
##	262	0.0049380	10.840	34.91	69.57	357.6
##	263	0.0024610	19.260	26.00	124.90	1156.0
##	264	0.0022170	16.410	26.42	104.40	830.5
##	265	0.0038540	20.880	32.09	136.10	1344.0
##	266	0.0037490	15.490	30.73	106.20	739.3
##	267	0.0046130	11.480	24.47	75.40	403.7
##	268	0.0219300	9.733	15.67	62.56	284.4
##	269	0.0023990	14.170	31.99	92.74	622.9
##	270	0.0039490	21.650	30.53	144.90	1417.0
	271	0.0040670	13.740	21.06	90.72	591.0
##	272	0.0128400	20.960	29.94	151.70	1332.0
	273	0.0014440	14.920	25.34	96.42	684.5
	274	0.0023040	14.110	23.21	89.71	611.1
	275	0.0033970	23.360	32.06	166.40	1688.0
	276	0.0044760	28.110	18.47	188.50	2499.0
	277	0.0018120	16.010	28.48	103.90	783.6
	278	0.0038920	18.980	34.12	126.70	1124.0
	279	0.0022280	11.660	24.77	74.08	412.3
	280	0.0068720	9.077	30.92	57.17	248.0
	281	0.0070540	22.390	18.91	150.10	1610.0
	282	0.0022950	11.930	26.43	76.38	435.9
	283	0.0027540	13.640	27.06	86.54	562.6
	284	0.0017940	14.850	19.05	94.11	683.4
	285	0.0015750	21.580	29.33	140.50	1436.0
	286	0.0012190	16.460	25.44	106.00	831.0
	287	0.0047680	16.860	34.85	115.00	811.3
	288	0.0033910	23.730	25.23	160.50	1646.0
	289	0.0050020	25.580	27.00	165.30	2010.0
	290	0.0035630	14.380	22.15	95.29	633.7
	291	0.0033240	10.490	34.24	66.50	330.6
	292	0.0021770	14.840	20.21	99.16	670.6
##	293	0.0043060	16.390	34.01	111.60	806.9

##	294	0.0019600	14.290	24.04	93.85	624.6
##	295	0.0037960	27.660	25.80	195.00	2227.0
##	296	0.0047600	29.920	26.93	205.70	2642.0
##	297	0.0026890	24.300	25.48	160.20	1809.0
##	298	0.0019970	27.320	30.88	186.80	2398.0
##	299	0.0022340	13.450	15.77	86.92	549.9
##	300	0.0063550	17.390	23.05	122.10	939.7
##	301	0.0033620	22.030	17.81	146.60	1495.0
##	302	0.0019570	16.220	25.26	105.80	819.7
	303	0.0026650	12.360	18.20	78.07	470.0
	304	0.0040050	16.410	29.66	113.30	844.4
	305	0.0031310	19.560	30.29	125.90	1088.0
	306	0.0028870	24.470	37.38	162.70	1872.0
	307	0.0061420	17.520	42.79	128.70	915.0
	308	0.0019720	13.860	23.02	89.69	580.9
	309	0.0093680	16.250	25.47	107.10	809.7
	310	0.0029180	14.980	17.13	101.10	686.6
	311	0.0027190	23.230	27.15	152.00	1645.0
	312	0.0023620	19.850	25.09	130.90	1222.0
	313	0.0015240	14.960	23.53	95.78	686.5
	314	0.0030020	12.400	18.99	79.46	472.4
	315	0.0033170	17.380	28.00	113.10	907.2
	316	0.0016840	14.690	35.63	97.11	680.6
	317	0.0051150	22.540	16.67	152.20	1575.0
	318	0.0030530	31.010	34.51	206.00	2944.0
	319	0.0047230	12.020	28.26	77.80	436.6
	320	0.0027830	17.270	17.93	114.20	880.8
	321	0.0096270	13.780	21.03	97.82	580.6
	322	0.0026650	20.010	29.02	133.50	1229.0
	323	0.0044110	24.220	31.59	156.10	1750.0
	324	0.0038560	13.670	26.15	87.54	583.0
	325	0.0013600	13.200	20.37	83.85	543.4
	326	0.0037550	22.930	27.68	152.20	1603.0
	327	0.0029250	15.330	30.28	98.27	715.5
	328	0.0059840	20.190	30.50	130.30	1272.0
	329	0.0015330	14.160	24.11	90.82	616.7
##	330	0.0031180	30.670	30.73	202.40	2906.0

##	331	0.0032200	10.620	14.10	66.53	342.9
##	332	0.0023780	14.450	24.38	95.14	626.9
##	333	0.0021200	11.600	12.02	73.66	414.0
##	334	0.0009502	12.850	16.47	81.60	513.1
##	335	0.0028870	18.550	21.43	121.40	971.4
##	336	0.0016560	17.380	15.92	113.70	932.7
##	337	0.0010580	13.720	20.98	86.82	585.7
##	338	0.0095590	10.310	22.65	65.50	324.7
##	339	0.0044450	24.540	34.37	161.10	1873.0
##	340	0.0022560	17.010	14.20	112.50	854.3
	341	0.0016210	17.710	19.58	115.90	947.9
	342	0.0033370	24.560	30.41	152.90	1623.0
	343	0.0061870	17.730	25.21	113.70	975.2
	344	0.0086750	12.580	27.96	87.16	472.9
	345	0.0023730	19.470	31.68	129.70	1175.0
	346	0.0046380	11.050	21.47	71.68	367.0
	347	0.0041740	9.981	17.70	65.27	302.0
	348	0.0035260	12.780	26.76	82.66	503.0
	349	0.0017180	17.580	28.06	113.80	967.0
	350	0.0036740	12.980	30.36	84.48	513.9
	351	0.0021040	14.910	19.31	96.53	688.9
	352	0.0037420	20.010	19.52	134.90	1227.0
	353	0.0028010	13.890	35.74	88.84	595.7
	354	0.0024770	13.010	29.15	83.99	518.1
	355	0.0032240	17.310	33.39	114.60	925.1
	356	0.0042370	10.410	31.56	67.03	330.7
	357	0.0024720	10.420	23.22	67.08	331.6
	358	0.0029220	13.300	24.99	85.22	546.3
	359	0.0021790	22.880	27.66	153.20	1606.0
	360	0.0046230	9.845	25.05	62.86	295.8
	361	0.0039330	24.220	26.17	161.70	1750.0
	362	0.0030020	16.840	27.66	112.00	876.5
	363	0.0031360	13.450	38.05	85.08	558.9
	364	0.0023710	11.380	15.65	73.23	394.5
	365	0.0034080	12.830	20.92	82.14	495.2
	366	0.0055120	12.260	19.68	78.78	457.8
##	367	0.0049680	20.470	25.11	132.90	1302.0

##	368	0.0022680	10.670	36.92	68.03	349.9
##	369	0.0019520	12.340	12.87	81.23	467.8
##	370	0.0025500	25.700	24.57	163.10	1972.0
##	371	0.0024800	13.570	21.40	86.67	552.0
##	372	0.0058220	10.010	19.23	65.59	310.1
##	373	0.0022220	13.350	28.46	84.53	544.3
##	374	0.0018580	13.340	27.87	88.83	547.4
##	375	0.0016380	14.340	22.15	91.62	633.5
##	376	0.0048210	13.190	16.36	83.24	534.0
##	377	0.0026260	16.510	32.29	107.40	826.4
##	378	0.0068840	14.180	23.13	95.23	600.5
	379	0.0016270	12.200	18.99	77.37	458.0
##	380	0.0027840	12.650	21.19	80.88	491.8
##	381	0.0023260	15.630	28.01	100.90	749.1
##	382	0.0019710	10.930	24.22	70.10	362.7
##	383	0.0032490	16.210	29.25	108.40	808.9
##	384	0.0038170	20.210	27.26	132.70	1261.0
##	385	0.0012170	12.470	23.03	79.15	478.6
##	386	0.0058900	10.830	22.04	71.08	357.4
##	387	0.0046140	28.190	28.18	195.90	2384.0
##	388	0.0033170	11.060	24.54	70.76	375.4
##	389	0.0023550	16.990	35.27	108.60	906.5
	390	0.0025690	17.320	17.76	109.80	928.2
##	391	0.0025560	21.530	38.54	145.40	1437.0
	392	0.0017730	11.920	38.30	75.19	439.6
	393	0.0025510	14.670	23.19	96.08	656.7
	394	0.0034460	23.720	35.90	159.80	1724.0
	395	0.0016970	15.850	20.20	101.60	773.4
	396	0.0019700	15.510	19.97	99.66	745.3
	397	0.0019820	12.640	19.67	81.93	475.7
	398	0.0021420	16.430	25.84	107.50	830.9
	399	0.0032880	22.750	34.66	157.60	1540.0
	400	0.0056670	10.920	26.29	68.81	366.1
	401	0.0034940	11.240	22.99	74.32	376.5
##	402	0.0040760	14.260	22.75	91.99	632.1
##	403	0.0038960	24.150	30.90	161.40	1813.0
##	404	0.0017110	25.370	23.17	166.80	1946.0

##	405	0.0081330	15.440	25.50	115.00	733.5
##	406	0.0019060	24.310	26.37	161.20	1780.0
##	407	0.0036960	16.970	19.14	113.10	861.5
##	408	0.0022060	12.820	15.97	83.74	510.5
##	409	0.0038840	18.810	27.37	127.10	1095.0
##	410	0.0035400	10.510	19.16	65.74	335.9
##	411	0.0075550	14.390	17.70	105.00	639.1
##	412	0.0020520	12.080	33.75	79.82	452.3
##	413	0.0023600	11.950	20.72	77.79	441.2
##	414	0.0037070	13.330	25.48	86.16	546.7
##	415	0.0020050	13.310	18.26	84.70	533.7
	416	0.0032110	23.960	30.39	153.90	1740.0
	417	0.0015880	12.320	22.02	79.93	462.0
	418	0.0033730	16.670	21.51	111.40	862.1
	419	0.0042860	24.190	33.81	160.00	1671.0
	420	0.0046350	13.740	26.38	91.93	591.7
##		0.0298400	11.020	19.49	71.04	380.5
	422	0.0016290	18.100	31.69	117.70	1030.0
	423	0.0016190	11.990	16.30	76.25	440.8
	424	0.0104500	10.280	16.38	69.05	300.2
	425	0.0047840	12.370	17.70	79.12	467.2
	426	0.0036010	17.090	33.47	111.80	888.3
	427	0.0031140	12.810	17.72	83.09	496.2
	428	0.0021680	16.310	20.54	102.30	777.5
	429	0.0022780	10.650	22.88	67.88	347.3
	430	0.0086600	17.730	22.66	119.80	928.8
	431	0.0014650	16.890	35.64	113.20	848.7
	432	0.0027250	21.860	26.20	142.20	1493.0
	433	0.0026070	13.670	24.90	87.78	567.9
	434	0.0052550	22.750	22.88	146.40	1600.0
	435	0.0049760	12.360	26.87	90.14	476.4
	436	0.0024760	15.530	18.00	98.40	749.9
	437	0.0016760	19.960	24.30	129.00	1236.0
	438	0.0021520	13.880	22.00	90.81	600.6
	439	0.0027880	9.507	15.40	59.90	274.9
	440	0.0050610	13.320	26.21	88.91	543.9
##	441	0.0045720	14.420	21.95	99.21	634.3

##	442	0.0025830	15.350	29.09	97.58	729.8
##	443	0.0035200	18.230	24.23	123.50	1025.0
##	444	0.0027870	14.830	18.32	94.94	660.2
##	445	0.0027590	22.510	44.87	141.20	1408.0
##	446	0.0029680	10.230	15.66	65.13	314.9
##	447	0.0030870	15.010	26.34	98.00	706.0
##	448	0.0017550	13.070	22.25	82.74	523.4
##	449	0.0047750	13.250	27.10	86.20	531.2
##	450	0.0044170	22.960	34.49	152.10	1648.0
##	451	0.0028210	11.520	19.80	73.47	395.4
##	452	0.0056720	15.650	39.34	101.70	768.9
##	453	0.0062400	20.820	30.44	142.00	1313.0
##	454	0.0089250	12.790	28.18	83.51	507.2
##	455	0.0022720	13.050	27.21	85.09	522.9
##	456	0.0025280	15.850	19.85	108.60	766.9
##	457	0.0061640	14.080	12.49	91.36	605.5
##	458	0.0022990	32.490	47.16	214.00	3432.0
##	459	0.0033990	9.262	17.04	58.36	259.2
	460	0.0009683	14.000	29.02	88.18	608.8
##	461	0.0045580	36.040	31.37	251.20	4254.0
	462	0.0045150	22.660	30.93	145.30	1603.0
	463	0.0019410	12.090	20.83	79.73	447.1
	464	0.0025640	15.270	17.50	97.90	706.6
	465	0.0074440	22.250	21.40	152.40	1461.0
	466	0.0060050	12.880	22.91	89.61	515.8
	467	0.0025850	14.410	20.45	92.00	636.9
	468	0.0024360	20.380	22.02	133.30	1292.0
	469	0.0075960	11.280	20.61	71.53	390.4
	470	0.0028300	15.660	21.58	101.20	750.0
	471	0.0058750	13.750	23.50	89.04	579.5
	472	0.0015200	15.980	25.82	102.30	782.1
	473	0.0017770	13.300	22.81	84.46	545.9
	474	0.0022560	27.900	45.41	180.20	2477.0
	475	0.0038830	13.600	33.33	87.24	567.6
	476	0.0024510	21.840	25.00	140.90	1485.0
	477	0.0073580	12.570	28.71	87.36	488.4
##	478	0.0022050	25.680	32.07	168.20	2022.0

##	479	0.0028150	16.250	26.19	109.10	809.8
##	480	0.0069950	16.010	32.94	106.00	788.0
##	481	0.0028080	15.700	15.98	102.80	745.5
##	482	0.0044520	16.330	30.86	109.50	826.4
##	483	0.0045600	23.150	34.01	160.50	1670.0
##	484	0.0179200	11.260	24.39	73.07	390.2
##	485	0.0026680	13.280	19.74	83.61	542.5
##	486	0.0073300	17.360	24.17	119.40	915.3
##	487	0.0039130	11.140	25.62	70.88	385.2
##	488	0.0050370	28.400	28.01	206.80	2360.0
##	489	0.0027010	14.500	28.46	95.29	648.3
##	490	0.0044350	13.240	32.82	91.76	508.1
	491	0.0039960	21.530	26.06	143.40	1426.0
##	492	0.0061850	25.740	39.42	184.60	1821.0
	493	0.0041680	18.790	17.04	125.00	1102.0
##	494	0.0035340	11.620	26.51	76.43	407.5
	495	0.0030480	9.565	27.04	62.06	273.9
	496	0.0032990	15.050	24.37	99.31	674.7
##	497	0.0035700	10.760	26.83	72.22	361.2
	498	0.0017200	16.230	29.89	105.50	740.7
	499	0.0052520	25.050	36.27	178.60	1926.0
	500	0.0033590	18.490	49.54	126.30	1035.0
	501	0.0017000	19.180	26.56	127.30	1084.0
	502	0.0030420	19.190	33.88	123.80	1150.0
	503	0.0041420	20.960	31.48	136.80	1315.0
	504	0.0122000	10.850	22.82	76.51	351.9
	505	0.0052170	13.360	25.40	88.14	528.1
	506	0.0025340	12.360	41.78	78.44	470.9
	507	0.0013810	14.910	20.65	94.44	684.6
	508	0.0017790	15.610	17.58	101.70	760.2
	509	0.0062130	24.290	29.41	179.10	1819.0
	510	0.0058150	23.170	27.65	157.10	1748.0
	511	0.0024250	14.500	20.49	96.09	630.5
	512	0.0027510	20.920	34.69	135.10	1320.0
	513	0.0056670	16.820	28.12	119.40	888.7
	514	0.0027350	15.340	16.35	99.71	706.2
##	515	0.0040850	19.380	31.03	129.30	1165.0

##	516	0.0056170	15.200	30.15	105.30	706.0
##	517	0.0035320	24.990	23.41	158.80	1956.0
##	518	0.0045710	23.570	25.53	152.50	1709.0
##	519	0.0051260	20.600	24.13	135.10	1321.0
##	520	0.0041980	14.550	29.16	99.48	639.3
##	521	0.0048300	12.130	21.57	81.41	440.4
##	522	0.0035860	14.970	24.64	96.05	677.9
##	523	0.0017500	17.260	36.91	110.10	931.4
##	524	0.0027830	9.456	30.37	59.16	268.6
##	525	0.0041000	7.930	19.54	50.41	185.2
	526	0.0021570	13.900	23.64	89.27	597.5
	527	0.0034070	14.200	31.31	90.67	624.0
	528	0.0019020	20.580	27.83	129.20	1261.0
	529	0.0029280	12.360	26.14	79.29	459.3
	530	0.0029790	11.150	24.62	71.11	380.2
	531	0.0080150	13.240	27.29	92.20	546.1
	532	0.0075510	8.678	31.89	54.49	223.6
	533	0.0011800	13.820	20.96	88.87	586.8
	534	0.0045840	17.790	28.45	123.50	981.2
	535	0.0032240	22.630	33.58	148.70	1589.0
	536	0.0022890	14.090	19.35	93.22	605.8
	537	0.0023860	12.840	22.47	81.81	506.2
	538	0.0016610	12.610	26.55	80.92	483.1
	539	0.0035990	15.050	24.75	99.17	688.6
	540	0.0025510	13.060	17.16	82.96	512.5
	541	0.0025810	19.800	25.05	130.00	1210.0
	542	0.0039010	10.570	17.84	67.84	326.6
	543	0.0020150	13.500	23.08	85.56	564.1
	544	0.0033450	25.300	31.86	171.10	1938.0
	545	0.0059870	23.370	31.72	170.30	1623.0
	546	0.0047260	13.740	19.93	88.81	585.4
	547	0.0056010	9.414	17.07	63.34	270.0
	548	0.0021330	13.750	25.99	87.82	579.7
	549	0.0053040	15.300	33.17	100.20	706.7
	550	0.0024220	13.760	20.70	89.88	582.6
	551	0.0077310	14.400	27.01	91.63	645.8
##	552	0.0048310	12.120	15.82	79.62	453.5

##	553	0.0100800	15.090	40	9.68	g	7.65	711.4
##	554	0.0023180	13.500	27	7.98	8	38.52	552.3
##	555	0.0018280	14.350	34	4.23	g	1.29	632.9
##	556	0.0040280	26.230	28	8.74	17	72.00	2081.0
##	557	0.0014610	12.970	22	2.46	3	33.12	508.9
##	558	0.0054440	16.460		8.34	11	L4.10	809.2
	559	0.0047850	11.350		6.82		72.01	396.5
	560	0.0019710	16.430		2.74		5.90	829.5
	561	0.0040220	15.890		0.36		16.20	799.6
	562	0.0020650	13.750		1.38		91.11	583.1
	563	0.0018920	15.400		1.98		00.40	734.6
	564	0.0031070	14.040		1.08		92.80	599.5
	565	0.0016720	14.900		3.89		95.10	687.6
	566	0.0067580	10.880		9.48		70.89	357.1
	567	0.0025750	17.800		8.03		13.80	973.1
	568	0.0035630	15.800		6.93		3.10	749.9
	569	0.0043670	22.690		1.84		52.10	1535.0
##		smoothness_worst	compactne	_		_		_
##		0.13850		0.12660		.124200		093910
##		0.12130		0.25150		.191600		079260
##		0.13690 0.13670		0.14820 0.18220		.106700		074310 086110
##		0.11260		0.18220		.136200		081780
##		0.12490		0.17370		.256000		066640
##		0.12490		0.19370		.363000		096530
##		0.22260		0.52090		.464600		201300
##		0.12190		0.14860		.079870		032030
	10	0.14180		0.22100		.229900		107500
	11	0.14640		0.35970		.517900		211300
	12	0.12170		0.17880		.194300		082110
	13	0.13510		0.35490		.450400		118100
	14	0.10210		0.06191		.001845		011110
	15	0.15280		0.18450		.397700		146600
##	16	0.10260		0.31710		.366200	0.	110500
##	17	0.12230		0.19490	0	.170900	0.	137400
##	18	0.13840		0.12120	0	.102000	0.	056020
##	19	0.13470		0.33910	0	.493200	0.	192300

## 20	0.14270	0.25850	0.099150	0.081870
## 21	0.13230	0.10400	0.152100	0.109900
## 22	0.17680	0.32510	0.139500	0.130800
## 23	0.13630	0.16440	0.141200	0.078870
## 24	0.13860	0.28830	0.196000	0.142300
## 25	0.13000	0.20490	0.129500	0.061360
## 26	0.14110	0.35420	0.277900	0.138300
## 27	0.13390	0.17510	0.138100	0.079110
## 28	0.16410	0.61100	0.633500	0.202400
## 29	0.12330	0.34160	0.434100	0.081200
## 30	0.12130	0.16760	0.136400	0.069870
## 31	0.10160	0.05847	0.018240	0.035320
## 32	0.14190	0.15230	0.217700	0.093310
## 33	0.12070	0.47850	0.516500	0.199600
## 34	0.12400	0.17950	0.137700	0.095320
## 35	0.12230	0.19280	0.249200	0.091860
## 36	0.12750	0.31040	0.256900	0.105400
## 37	0.11930	0.23360	0.268700	0.178900
## 38	0.14240	0.25170	0.094200	0.060420
## 39	0.11680	0.21190	0.231800	0.147400
## 40	0.13650	0.47060	0.502600	0.173200
## 41	0.15220	0.29450	0.378800	0.169700
## 42	0.14380	0.38460	0.681000	0.224700
## 43	0.20980	0.86630	0.686900	0.257500
## 44	0.11420	0.19750	0.145000	0.058500
## 45	0.09384	0.20060	0.138400	0.062220
## 46	0.08822	0.19630	0.253500	0.091810
## 47	0.10300	0.06219	0.045800	0.040440
## 48	0.15300	0.59370	0.645100	0.275600
## 49	0.14280	0.25700	0.343800	0.145300
## 50	0.10500	0.21580	0.190400	0.076250
## 51	0.14600	0.43700	0.463600	0.165400
## 52	0.11360	0.36270	0.340200	0.137900
## 53	0.12440	0.17260	0.144900	0.053560
## 54	0.10810	0.24260	0.306400	0.082190
## 55 ## 56	0.15360	0.41670	0.789200	0.273300
## 56	0.15360	0.47910	0.485800	0.170800

##	57	0.10730	0.27930	0.269000	0.105600
##	58	0.15210	0.10190	0.006920	0.010420
##	59	0.16960	0.42440	0.580300	0.224800
##	60	0.15180	0.37490	0.431600	0.225200
##	61	0.12470	0.74440	0.724200	0.249300
##	62	0.13760	0.38300	0.489000	0.172100
##		0.12430	0.17930	0.280300	0.109900
##		0.10940	0.20430	0.208500	0.111200
##					0.239300
					0.081940
					0.096780
					0.058130
					0.099930
					0.081200
					0.225800
					0.064990
					0.114500
					0.083410
					0.084360
					0.120500
					0.157100
					0.069610
					0.084110
					0.197400
					0.084850
					0.048150
					0.056140
					0.139700
					0.131800
					0.053660
					0.107000
					0.077630
					0.200900
					0.128400
					0.039900
					0.105300 0.085680
##	33	0.10040	0.100/0	0.220000	0.00C00.0
	#######################################	## 59 ## 60 ## 61 ## 62 ## 63 ## 64 ## 65 ## 66 ## 67 ## 68 ## 70 ## 71 ## 72 ## 73 ## 74 ## 75 ## 76 ## 77 ## 80 ## 81 ## 82 ## 83 ## 84 ## 85 ## 88 ## 89 ## 90 ## 91	## 58	## 58	## 58

##	94	0.12180	0.10930	0.044620	0.059210
##	95	0.15330	0.93270	0.848800	0.177200
##	96	0.14350	0.44780	0.495600	0.198100
##	97	0.09329	0.23180	0.160400	0.066080
##	98	0.13690	0.17580	0.131600	0.091400
##	99	0.14060	0.14400	0.065720	0.055750
##	100	0.15730	0.60760	0.647600	0.286700
##	101	0.13350	0.25500	0.253400	0.086000
##	102	0.07117	0.02729	0.000000	0.000000
##	103	0.13580	0.15070	0.127500	0.087500
##	104	0.14640	0.18710	0.291400	0.160900
##	105	0.11010	0.15080	0.229800	0.049700
##	106	0.13520	0.20100	0.259600	0.074310
##	107	0.10960	0.20020	0.238800	0.092650
##	108	0.14020	0.23150	0.353500	0.080880
##	109	0.12040	0.16330	0.061940	0.032640
	110	0.12820	0.11080	0.035820	0.043060
	111	0.16880	0.26600	0.287300	0.121800
	112	0.16300	0.43100	0.538100	0.078790
	113	0.15030	0.22910	0.327200	0.167400
	114	0.16510	0.77250	0.694300	0.220800
	115	0.10850	0.08615	0.055230	0.037150
	116	0.14360	0.41220	0.503600	0.173900
	117	0.15520	0.40560	0.496700	0.183800
	118	0.16810	0.39130	0.555300	0.212100
	119	0.13530	0.32350	0.361700	0.182000
	120	0.13430	0.26580	0.257300	0.125800
##	121	0.11570	0.13500	0.081150	0.051040
##	122	0.11780	0.29200	0.386100	0.192000
##	123	0.09545	0.13610	0.072390	0.048150
##	124	0.13630	0.16280	0.286100	0.182000
##	125	0.15310	0.11200	0.098230	0.065480
##	126	0.11440	0.17890	0.122600	0.055090
##	127	0.18620	0.40990	0.637600	0.198600
	128	0.13120	0.15810	0.267500	0.135900
##	129	0.10210	0.22640	0.320700	0.121800
##	130	0.13800	0.27330	0.423400	0.136200

##	131	0.14190	0.70900	0.901900	0.247500
##	132	0.11470	0.31670	0.366000	0.140700
##	133	0.10720	0.13810	0.106200	0.079580
##	134	0.14100	0.21130	0.410700	0.221600
##	135	0.16620	0.20310	0.125600	0.095140
##	136	0.18050	0.35780	0.469500	0.209500
##	137	0.14600	0.13100	0.000000	0.000000
##	138	0.12750	0.12320	0.086360	0.070250
##	139	0.14490	0.20530	0.392000	0.182700
	140	0.11440	0.08906	0.092030	0.062960
	141	0.13380	0.21170	0.344600	0.149000
	142	0.16220	0.66560	0.711900	0.265400
	143	0.11660	0.19220	0.321500	0.162800
	144	0.16400	0.62470	0.692200	0.178500
	145	0.15250	0.66430	0.553900	0.270100
	146	0.13560	0.10000	0.088030	0.043060
	147	0.13960	0.56090	0.396500	0.181000
	148	0.13380	0.16790	0.166300	0.091230
	149	0.08409	0.04712	0.022370	0.028320
	150	0.11840	0.19630	0.193700	0.084420
	151	0.11040	0.04953	0.019380	0.027840
	152	0.13980	0.13520	0.020850	0.045890
	153	0.13120	0.25480	0.209000	0.101200
	154	0.12850	0.08842	0.043840	0.023810
	155	0.09983	0.24720	0.222000	0.102100
	156	0.13330	0.10490	0.114400	0.050520
	157	0.10500	0.07622	0.106000	0.051850
	158	0.19090	0.26980	0.402300	0.142400
	159	0.09794	0.06542	0.039860	0.022220
##	160	0.11620	0.17110	0.228200	0.128200
##	161	0.10060	0.12380	0.135000	0.100100
##	162	0.10280	0.18430	0.154600	0.093140
##	163	0.11530	0.10080	0.052850	0.055560
	164	0.09861	0.05232	0.014720	0.013890
	165	0.11990	0.36250	0.379400	0.226400
##	166	0.14720	0.40340	0.534000	0.268800
##	167	0.12970	0.15250	0.163200	0.108700

0.11340	0.28670	0.229800	0.152800
0.14780	0.22560	0.300900	0.097220
0.09711	0.18240	0.156400	0.060190
0.17860	0.41660	0.500600	0.208800
0.16130	0.35680	0.406900	0.182700
0.16540	0.36820	0.267800	0.155600
0.10050	0.17300	0.145300	0.061890
0.14010	0.15460	0.264400	0.116000
0.12890		0.173100	0.079260
			0.209100
			0.055560
			0.237800
			0.074310
			0.108000
			0.152000
			0.058020
			0.125200
			0.020220
			0.031940
			0.254300
			0.137900
			0.142500
			0.051590
			0.121600
			0.068760
			0.114700
			0.171200
			0.154100
			0.184100
			0.152600
			0.069460
			0.142700
			0.091400
			0.028990
			0.074850
			0.130800
U.128/U	0.22300	0.221000	0.110500
	0.14780 0.09711 0.17860 0.16130 0.16540 0.10050 0.14010	0.14780 0.22560 0.09711 0.18240 0.17860 0.41660 0.16130 0.35680 0.16540 0.36820 0.10050 0.17300 0.14010 0.15460 0.12890 0.21410 0.16240 0.35110 0.11200 0.18790 0.16790 0.50900 0.11230 0.08862 0.14290 0.20420 0.15000 0.20450 0.11700 0.10720 0.14910 0.33310 0.14240 0.09669 0.09312 0.07506 0.17030 0.39340 0.14650 0.22750 0.10540 0.15370 0.1340 0.15370 0.1340 0.22360 0.13740 0.15750 0.16780 0.65770 0.14140 0.35470 0.16600 0.23560 0.11150 0.17660 0.16240 0.31240 0.10260 0.24310 0.09387 0.05131 0.	0.14780 0.22560 0.300900 0.09711 0.18240 0.156400 0.17860 0.41660 0.500600 0.16130 0.35680 0.406900 0.16540 0.36820 0.267800 0.10050 0.17300 0.145300 0.14010 0.15460 0.264400 0.12890 0.21410 0.173100 0.16240 0.35110 0.387900 0.11200 0.18790 0.207900 0.16790 0.50900 0.734500 0.11230 0.08862 0.114500 0.14290 0.20420 0.137700 0.15000 0.20450 0.282900 0.11700 0.10720 0.037320 0.14910 0.33310 0.332700 0.14240 0.99669 0.013350 0.09312 0.07506 0.028840 0.17030 0.39340 0.501800 0.14650 0.22750 0.396500 0.1540 0.15370 0.260600 0.1340 0.15750 0.151400 0.16780 0.65770 0.702600

## 205	0.14600	0.11150	0.108700	0.078640
## 206	0.17320	0.49670	0.591100	0.216300
## 207	0.13420	0.18080	0.186000	0.082880
## 208	0.11370	0.07974	0.061200	0.071600
## 209	0.09023	0.05836	0.013790	0.022100
## 210	0.14910	0.75840	0.678000	0.290300
## 211	0.09926	0.23170	0.334400	0.101700
## 212	0.13680	0.42900	0.358700	0.183400
## 213	0.15850	0.73940	0.656600	0.189900
## 214	0.11660	0.26850	0.286600	0.091730
## 215	0.13320	0.38980	0.336500	0.079660
## 216	0.12750	0.09866	0.021680	0.025790
## 217	0.14750	0.19790	0.142300	0.080450
## 218	0.11530	0.34290	0.251200	0.133900
## 219	0.17910	0.52490	0.535500	0.174100
## 220	0.12280	0.35830	0.394800	0.234600
## 221	0.12980	0.14720	0.052330	0.063430
## 222	0.13140	0.16070	0.093850	0.082240
## 223	0.14950	0.41160	0.612100	0.198000
## 224	0.15570	0.16760	0.175500	0.061270
## 225	0.10760	0.06791	0.000000	0.000000
## 226	0.13470	0.07767	0.000000	0.000000
## 227	0.20060	0.36630	0.291300	0.107500
## 228	0.16650	0.29420	0.530800	0.217300
## 229	0.13810	0.34200	0.350800	0.193900
## 230	0.11660	0.09794	0.005518	0.016670
## 231	0.14060	0.20310	0.292300	0.068350
## 232	0.10480	0.06744	0.049210	0.047930
## 233	0.08949	0.41930	0.678300	0.150500
## 234	0.15900	0.29470	0.359700	0.158300
## 235	0.12340	0.10640	0.086530	0.064980
## 236	0.15260	0.14770	0.149000	0.098150
## 237	0.13160	0.46480	0.458900	0.172700
## 238	0.16410	0.22350	0.175400	0.085120
## 239 ## 240	0.14990	0.13980	0.112500 0.118100	0.061360
## 240	0.15150 0.15120	0.10260 0.32620	0.118100	0.067360 0.137400
## 241	0.13120	U.3202U	0.320900	0.13/400

##	242	0.17240	0.23640	0.245600	0.105000
##	243	0.10860	0.18870	0.186800	0.025640
##	244	0.12400	0.14860	0.121100	0.082350
##	245	0.17100	0.59550	0.848900	0.250700
##	246	0.11990	0.09546	0.093500	0.038460
##	247	0.11260	0.07094	0.012350	0.025790
##	248	0.13400	0.42020	0.404000	0.120500
##	249	0.12970	0.13570	0.068800	0.025640
	250	0.12080	0.18560	0.181100	0.071160
	251	0.11350	0.21760	0.185600	0.101800
	252	0.15040	0.51720	0.618100	0.246200
	253	0.11020	0.28090	0.302100	0.082720
	254	0.18730	0.59170	0.903400	0.196400
	255	0.13940	0.13640	0.155900	0.101500
	256	0.15260	0.11930	0.061410	0.037700
	257	0.10890	0.26490	0.377900	0.095940
	258	0.14530	0.16220	0.181100	0.086980
	259	0.12960	0.07061	0.103900	0.058820
	260	0.14400	0.17730	0.239000	0.128800
	261	0.14320	0.17730	0.160300	0.062660
	262	0.13840	0.17100	0.200000	0.091270
	263	0.15460	0.23940	0.379100	0.151400
	264	0.10640	0.14150	0.167300	0.081500
	265	0.16340	0.35590	0.558800	0.184700
	266	0.17030	0.54010	0.539000	0.206000
	267	0.09527	0.13970	0.192500	0.035710
	268	0.12070	0.24360	0.143400	0.047860
	269	0.12560	0.18040	0.123000	0.063350
	270	0.14630	0.29680	0.345800	0.156400
	271	0.09534	0.18120	0.190100	0.082960
	272	0.10370	0.39030	0.363900	0.176700
	273	0.10660	0.12310	0.084600	0.079110
	274	0.11760	0.18430	0.170300	0.086600
	275	0.13220	0.56010	0.386500	0.170800
	276	0.11420	0.15160	0.320100	0.159500
	277	0.12160	0.13880	0.170000	0.101700
##	278	0.11390	0.30940	0.340300	0.141800

##	279	0.10010	0.07348	0.000000	0.000000
##	280	0.12560	0.08340	0.000000	0.000000
##	281	0.14780	0.56340	0.378600	0.210200
##	282	0.11080	0.07723	0.025330	0.028320
##	283	0.12890	0.13520	0.045060	0.050930
##	284	0.12780	0.12910	0.153300	0.092220
##	285	0.15580	0.25670	0.388900	0.198400
	286	0.11420	0.20700	0.243700	0.078280
	287	0.15590	0.40590	0.374400	0.177200
	288	0.14170	0.33090	0.418500	0.161300
	289	0.12110	0.31720	0.699100	0.210500
	290	0.15330	0.38420	0.358200	0.140700
	291	0.10730	0.07158	0.000000	0.000000
	292	0.11050	0.20960	0.134600	0.069870
	293	0.17370	0.31220	0.380900	0.167300
	294	0.13680	0.21700	0.241300	0.088290
	295	0.12940	0.38850	0.475600	0.243200
	296	0.13420	0.41880	0.465800	0.247500
	297	0.12680	0.31350	0.443300	0.214800
	298	0.15120	0.31500	0.537200	0.238800
	299	0.15210	0.16320	0.162200	0.073930
	300	0.13770	0.44620	0.589700	0.177500
	301	0.11240	0.20160	0.226400	0.177700
	302	0.09445	0.21670	0.156500	0.075300
	303	0.11710	0.08294	0.018540	0.039530
	304	0.15740	0.38560	0.510600	0.205100
	305	0.15520	0.44800	0.397600	0.147900
	306	0.12230	0.27610	0.414600	0.156300
	307	0.14170	0.79170	1.170000	0.235600
	308	0.11720	0.19580	0.181000	0.083880
	309	0.09970	0.25210	0.250000	0.084050
	310	0.13760	0.26980	0.257700	0.090900
	311	0.10970	0.25340	0.309200	0.161300
	312	0.14160	0.24050	0.337800	0.185700
	313	0.11990	0.13460	0.174200	0.090770
	314	0.13590	0.08368	0.071530	0.089460
##	315	0.15300	0.37240	0.366400	0.149200

##	316	0.11080	0.14570	0.079340	0.057810
##	317	0.13740	0.20500	0.400000	0.162500
##	318	0.14810	0.41260	0.582000	0.259300
##	319	0.10870	0.17820	0.156400	0.064130
##	320	0.12200	0.20090	0.215100	0.125100
##	321	0.11750	0.40610	0.489600	0.134200
##	322	0.15630	0.38350	0.540900	0.181300
##	323	0.11900	0.35390	0.409800	0.157300
##	324	0.15000	0.23990	0.150300	0.072470
	325	0.10370	0.07776	0.062430	0.040520
	326	0.13980	0.20890	0.315700	0.164200
	327	0.12870	0.15130	0.062310	0.079630
	328	0.18550	0.49250	0.735600	0.203400
	329	0.12970	0.11050	0.081120	0.062960
	330	0.15150	0.26780	0.481900	0.208900
	331	0.12340	0.07204	0.000000	0.000000
	332	0.12140	0.16520	0.071270	0.063840
	333	0.14360	0.12570	0.104700	0.046030
	334	0.10010	0.05332	0.041160	0.018520
	335	0.14110	0.21640	0.335500	0.166700
	336	0.12220	0.21860	0.296200	0.103500
	337	0.09293	0.04327	0.003581	0.016350
	338	0.14820	0.43650	1.252000	0.175000
	339	0.14980	0.48270	0.463400	0.204800
	340	0.15410	0.29790	0.400400	0.145200
	341	0.12060	0.17220	0.231000	0.112900
	342	0.12490	0.32060	0.575500	0.195600
	343	0.14260	0.21160	0.334400	0.104700
	344	0.13470	0.48480	0.743600	0.121800
	345	0.13950	0.30550	0.299200	0.131200
	346	0.14670	0.17650	0.130000	0.053340
	347	0.10150	0.12480	0.094410	0.047620
	348	0.14130	0.17920	0.077080	0.064020
	349	0.12460	0.21010	0.286600	0.112000
	350	0.13110	0.18220	0.160900	0.120200
	351	0.10340	0.10170	0.062600	0.082160
##	352	0.12550	0.28120	0.248900	0.145600

##	353	0.12270	0.16200	0.243900	0.064930
##	354	0.16990	0.21960	0.312000	0.082780
##	355	0.16480	0.34160	0.302400	0.161400
##	356	0.15480	0.16640	0.094120	0.065170
##	357	0.14150	0.12470	0.062130	0.055880
##	358	0.12800	0.18800	0.147100	0.069130
##	359	0.14420	0.25760	0.378400	0.193200
##	360	0.11030	0.08298	0.079930	0.025640
	361	0.12280	0.23110	0.315800	0.144500
	362	0.11310	0.19240	0.232200	0.111900
	363	0.09422	0.05213	0.000000	0.000000
	364	0.13430	0.16500	0.086150	0.066960
	365	0.11400	0.09358	0.049800	0.058820
	366	0.13450	0.21180	0.179700	0.069180
	367	0.14180	0.34980	0.358300	0.151500
	368	0.11100	0.11090	0.071900	0.048660
	369	0.10920	0.16260	0.083240	0.047150
	370	0.14970	0.31610	0.431700	0.199900
	371	0.15800	0.17510	0.188900	0.084110
	372	0.09836	0.16780	0.139700	0.050870
	373	0.12220	0.09052	0.036190	0.039830
	374	0.12080	0.22790	0.162000	0.056900
	375	0.12250	0.15170	0.188700	0.098510
	376	0.09439	0.06477	0.016740	0.026800
	377	0.10600	0.13760	0.161100	0.109500
	378	0.14270	0.35930	0.320600	0.098040
	379	0.12590	0.07348	0.004955	0.011110
	380	0.13890	0.15820	0.180400	0.096080
	381	0.11180	0.11410	0.047530	0.058900
	382	0.11430	0.08614	0.041580	0.031250
	383	0.13060	0.19760	0.334900	0.122500
	384	0.14460	0.58040	0.527400	0.186400
	385	0.14830	0.15740	0.162400	0.085420
	386	0.14610	0.22460	0.178300	0.083330
	387	0.12720	0.47250	0.580700	0.184100
	388	0.14130	0.10440	0.084230	0.065280
##	389	0.12650	0.19430	0.316900	0.118400

##	390	0.13540	0.13610	0.194700	0.135700
##	391	0.14010	0.37620	0.639900	0.197000
##	392	0.09267	0.05494	0.000000	0.000000
##	393	0.10890	0.15820	0.105000	0.085860
##	394	0.17820	0.38410	0.575400	0.187200
##	395	0.12640	0.15640	0.120600	0.087040
##	396	0.08484	0.12330	0.109100	0.045370
##	397	0.14150	0.21700	0.230200	0.110500
##	398	0.12570	0.19970	0.284600	0.147600
	399	0.12180	0.34580	0.473400	0.225500
##	400	0.13160	0.09473	0.020490	0.023810
##		0.14190	0.22430	0.084340	0.065280
##	402	0.10250	0.25310	0.330800	0.089780
##	403	0.15090	0.65900	0.609100	0.178500
##	404	0.15620	0.30550	0.415900	0.211200
##	405	0.12010	0.56460	0.655600	0.135700
##	406	0.13270	0.23760	0.270200	0.176500
##		0.12350	0.25500	0.211400	0.125100
	408	0.15480	0.23900	0.210200	0.089580
	409	0.18780	0.44800	0.470400	0.202700
	410	0.15040	0.09515	0.071610	0.072220
	411	0.12540	0.58490	0.772700	0.156100
	412	0.09203	0.14320	0.108900	0.020830
	413	0.10760	0.12230	0.097550	0.034130
	414	0.12710	0.10280	0.104600	0.069680
	415	0.10360	0.08500	0.067350	0.082900
	416	0.15140	0.37250	0.593600	0.206000
	417	0.11900	0.16480	0.139900	0.084760
	418	0.12940	0.33710	0.375500	0.141400
	419	0.12780	0.34160	0.370300	0.215200
	420	0.13850	0.40920	0.450400	0.186500
	421	0.12920	0.27720	0.821600	0.157100
	422	0.13890	0.20570	0.271200	0.153000
	423	0.13410	0.08971	0.071160	0.055060
	424	0.19020	0.34410	0.209900	0.102500
	425	0.11210	0.16100	0.164800	0.062960
##	426	0.18510	0.40610	0.402400	0.171600

0.12930	0.18850	0.031220	0.047660
0.12180	0.15500	0.122000	0.079710
0.12650	0.12000	0.010050	0.022320
0.17650	0.45030	0.442900	0.222900
0.14710	0.28840	0.379600	0.132900
0.14920	0.25360	0.375900	0.151000
0.13770	0.20030	0.226700	0.076320
0.14120	0.30890	0.353300	0.166300
0.13910	0.40820	0.477900	0.155500
			0.058900
			0.129400
			0.082350
			0.044190
			0.079090
			0.098580
			0.071740
			0.211500
			0.133500
			0.206600
			0.062270
			0.061060
			0.027960
			0.113800
			0.155500
			0.044640
			0.145900
			0.182500
			0.087500
			0.082630
			0.159900
			0.074070
			0.165900
			0.000000
			0.009259
			0.262500
			0.170800
U.1090U	U.1982U	0.100300	0.067540
	0.12180 0.12650 0.17650 0.14710 0.14920 0.13770 0.14120	0.12180 0.15500 0.12650 0.12000 0.17650 0.45030 0.14710 0.28840 0.14920 0.25360 0.13770 0.20030 0.14120 0.30890 0.13910 0.40820 0.12810 0.11090 0.12430 0.11600 0.10970 0.15060 0.17330 0.12390 0.13580 0.18920 0.12880 0.32530 0.12160 0.15170 0.15510 0.42030 0.13930 0.24990 0.13650 0.37350 0.13240 0.11480 0.09368 0.14420 0.10130 0.07390 0.14050 0.30460 0.16000 0.24440 0.13410 0.11530 0.17850 0.47060 0.12510 0.24140 0.09457 0.33990 0.14510 0.13790 0.14510 0.13790 0.14510 0.13790 0.14500 0.07057	0.12180 0.15500 0.122000 0.12650 0.12000 0.010050 0.17650 0.45030 0.442900 0.14710 0.28840 0.379600 0.14920 0.25360 0.375900 0.13770 0.20030 0.226700 0.14120 0.30890 0.353300 0.13910 0.40820 0.477900 0.12810 0.11090 0.053070 0.12430 0.11600 0.221000 0.10970 0.15060 0.176400 0.13580 0.18920 0.195600 0.12880 0.32530 0.343900 0.12160 0.15170 0.104900 0.15510 0.42030 0.520300 0.13930 0.24990 0.184800 0.13240 0.11480 0.088670 0.09368 0.14420 0.135900 0.10130 0.07390 0.007732 0.14050 0.30460 0.280600 0.17850 0.47060 0.442500 0.12510 0.24140 0.382900 0.14260 0.21870 0.116400

0.10720	0.10710	0.035170	0.033120
0.15450	0.39490	0.385300	0.255000
0.14500	0.26290	0.240300	0.073700
0.11280	0.13460	0.011200	0.025000
0.12630	0.26660	0.429000	0.153500
0.14020	0.23600	0.189800	0.097440
0.11950	0.12520	0.111700	0.074530
0.09388	0.08978	0.051860	0.047730
	0.09995	0.077500	0.057540
			0.050130
			0.162500
			0.055470
			0.177600
			0.109200
			0.228000
			0.148900
			0.152100
			0.122100
			0.156500
			0.184800
			0.099100
			0.042620
			0.213500
			0.065600
			0.291000
			0.041950
			0.252400
			0.148900
			0.265000
			0.182700
			0.098610
			0.027780
			0.109600
			0.097490
			0.160700
			0.194100
0.10030	0.33040	0.3/0300	0.201400
	0.15450 0.14500 0.11280 0.12630 0.14020 0.11950	0.15450 0.39490 0.14500 0.26290 0.11280 0.13460 0.12630 0.26660 0.14020 0.23600 0.11950 0.12520 0.09388 0.08978 0.10450 0.09995 0.09701 0.04619 0.14080 0.40970 0.10410 0.09726 0.14340 0.27630 0.08799 0.32140 0.13680 0.31010 0.13130 0.39660 0.13130 0.17880 0.14310 0.30260 0.14910 0.42570 0.13010 0.29500 0.09958 0.06476 0.15500 0.50460 0.12340 0.15420 0.17010 0.69970 0.11180 0.16460 0.21840 0.93790 0.13090 0.23270 0.16500 0.86810 0.15310 0.35830 0.14280 0.25100 0.15590 0.23020 0.15030 0.39040	0.15450 0.39490 0.385300 0.14500 0.26290 0.240300 0.11280 0.13460 0.011200 0.12630 0.26660 0.429000 0.14020 0.23600 0.189800 0.11950 0.12520 0.111700 0.09388 0.08978 0.051860 0.10450 0.09995 0.077500 0.09701 0.04619 0.048330 0.14080 0.40970 0.399500 0.10410 0.09726 0.055240 0.14340 0.27630 0.385300 0.08799 0.32140 0.291200 0.13680 0.31010 0.439900 0.13130 0.30300 0.180400 0.17940 0.39660 0.338100 0.14310 0.30260 0.319400 0.14310 0.42570 0.613300 0.13010 0.42570 0.613300 0.1340 0.15420 0.127700 0.17010 0.69970 0.960800 0.1180 0.16460 0.076980 0.21840 0.93790 0.840200

##	501	0.10090	0.29200	0.247700	0.087370
##	502	0.11810	0.15510	0.145900	0.099750
##	503	0.17890	0.42330	0.478400	0.207300
##	504	0.11430	0.36190	0.603000	0.146500
##	505	0.17800	0.28780	0.318600	0.141600
##	506	0.09994	0.06885	0.023180	0.030020
##	507	0.08567	0.05036	0.038660	0.033330
##	508	0.11390	0.10110	0.110100	0.079550
##	509	0.14070	0.41860	0.659900	0.254200
	510	0.15170	0.40020	0.421100	0.213400
	511	0.13120	0.27760	0.189000	0.072830
	512	0.13150	0.18060	0.208000	0.113600
	513	0.16370	0.57750	0.695600	0.154600
	514	0.13110	0.24740	0.175900	0.080560
	515	0.14150	0.46650	0.708700	0.224800
	516	0.17770	0.53430	0.628200	0.197700
	517	0.12380	0.18660	0.241600	0.186000
	518	0.14440	0.42450	0.450400	0.243000
	519	0.12800	0.22970	0.262300	0.132500
	520	0.13490	0.44020	0.316200	0.112600
	521	0.13270	0.29960	0.293900	0.093100
	522	0.14260	0.23780	0.267100	0.101500
	523	0.11480	0.09866	0.154700	0.065750
	524	0.08996	0.06444	0.000000	0.000000
	525	0.15840	0.12020	0.000000	0.000000
	526	0.12560	0.18080	0.199200	0.057800
	527	0.12270	0.34540	0.391100	0.118000
	528	0.10720	0.12020	0.224900	0.118500
	529	0.11180	0.09708	0.075290	0.062030
	530	0.13880	0.12550	0.064090	0.025000
	531	0.11160	0.28130	0.236500	0.115500
	532	0.15960	0.30640	0.339300	0.050000
	533	0.10680	0.09605	0.034690	0.036120
	534	0.14150	0.46670	0.586200	0.203500
	535	0.12750	0.38610	0.567300	0.173200
	536	0.13260	0.26100	0.347600	0.097830
##	537	0.12490	0.08720	0.090760	0.063160

## 538	0.12230	0.10870	0.079150	0.057410
## 539	0.12640	0.20370	0.137700	0.068450
## 540	0.14310	0.18510	0.192200	0.084490
## 541	0.11110	0.14860	0.193200	0.109600
## 542	0.18500	0.20970	0.099960	0.072620
## 543	0.10380	0.06624	0.005579	0.008772
## 544	0.15920	0.44920	0.534400	0.268500
## 545	0.16390	0.61640	0.768100	0.250800
## 546	0.14830	0.20680	0.224100	0.105600
## 547	0.11790	0.18790	0.154400	0.038460
## 548	0.12980	0.18390	0.125500	0.083120
## 549	0.12410	0.22640	0.132600	0.104800
## 550	0.14940	0.21560	0.305000	0.065480
## 551	0.09402	0.19360	0.183800	0.056010
## 552	0.08864	0.12560	0.120100	0.039220
## 553	0.18530	1.05800	1.105000	0.221000
## 554	0.13490	0.18540	0.136600	0.101000
## 555	0.12890	0.10630	0.139000	0.060050
## 556	0.15020	0.57170	0.705300	0.242200
## 557	0.11830	0.10490	0.081050	0.065440
## 558	0.13120	0.36350	0.321900	0.110800
## 559	0.12160	0.08240	0.039380	0.043060
## 560	0.12260	0.18810	0.206000	0.083080
## 561	0.14460	0.42380	0.518600	0.144700
## 562	0.12560	0.19280	0.116700	0.055560
## 563	0.10170	0.14600	0.147200	0.055630
## 564	0.15470	0.22310	0.179100	0.115500
## 565	0.12820	0.19650	0.187600	0.104500
## 566	0.13600	0.16360	0.071620	0.040740
## 567	0.13010	0.32990	0.363000	0.122600
## 568	0.13470	0.14780	0.137300	0.106900
## 569	0.11920	0.28400	0.402400	0.196600
##	symmetry_worst dimensi	_		
## 1	0.2827	0.06771		
## 2 ## 3	0.2940	0.07587 0.07881		
## 3	0.2998 0.2102	0.06784		
## 4	0.2102	0.00/04		

## 5	0.2487	0.06766
## 6	0.3035	0.08284
## 7	0.2112	0.08732
## 8	0.4432	0.10860
## 9	0.2826	0.07552
## 10	0.3301	0.09080
## 11	0.2480	0.08999
## 12	0.3113	0.08132
## 13	0.2563	0.08174
## 14	0.2439	0.06289
## 15	0.2293	0.06091
## 16	0.2258	0.08004
## 17	0.2723	0.07071
## 18	0.2688	0.06888
## 19	0.3294	0.09469
## 20	0.3469	0.09241
## 21	0.2572	0.07097
## 22	0.2803	0.09970
## 23	0.2251	0.07732
## 24	0.2590	0.07779
## 25	0.2383	0.09026
## 26	0.2589	0.10300
## 27	0.2678	0.06603
## 28	0.4027	0.09876
## 29	0.2982	0.09825
## 30	0.2741	0.07582
## 31	0.2107	0.06580
## 32	0.2829	0.08067
## 33	0.2301	0.12240
## 34	0.3455	0.06896
## 35	0.2626	0.07048
## 36	0.3387	0.09638
## 37	0.2551	0.06589
## 38	0.2727	0.10360
## 39	0.2810	0.07228
## 40	0.2770	0.10630
## 41	0.3151	0.07999

## 42	0.3643	0.09223
## 43	0.6638	0.17300
## 44	0.2432	0.10090
## 45	0.2679	0.07698
## 46	0.2369	0.06558
## 47	0.2383	0.07083
## 48	0.3690	0.08815
## 49	0.2666	0.07686
## 50	0.2685	0.07764
## 51	0.3630	0.10590
## 52	0.2954	0.08362
## 53	0.2779	0.08121
## 54	0.1890	0.07796
## 55	0.3198	0.08762
## 56	0.3527	0.10160
## 57	0.2604	0.09879
## 58	0.2933	0.07697
## 59	0.3222	0.08009
## 60	0.3590	0.07787
## 61	0.4670	0.10380
## 62	0.2160	0.09300
## 63	0.1603	0.06818
## 64	0.2994	0.07146
## 65	0.4667	0.09946
## 66	0.2268	0.09082
## 67	0.2506	0.07623
## 68	0.2530	0.05695
## 69	0.2955	0.06912
## 70	0.3206	0.08950
## 71	0.2807	0.10710
## 72	0.2894	0.07664
## 73	0.3135	0.10550
## 74	0.1783	0.05871
## 75	0.2527	0.05972
## 76	0.2972	0.09261
## 77	0.3206	0.06938
## 78	0.2400	0.06641

## 79	0.2564	0.08253
## 80	0.3060	0.08503
## 81	0.2404	0.06428
## 82	0.2482	0.06306
## 83	0.2637	0.06658
## 84	0.3151	0.08473
## 85	0.3343	0.09215
## 86	0.2309	0.06915
## 87	0.3110	0.07592
## 88	0.2196	0.07675
## 89	0.2822	0.07526
## 90	0.2849	0.09031
## 91	0.1783	0.07319
## 92	0.3035	0.07661
## 93	0.2683	0.06829
## 94	0.2306	0.06291
## 95	0.5166	0.14460
## 96	0.3019	0.09124
## 97	0.3207	0.07247
## 98	0.3101	0.07007
## 99	0.3055	0.08797
## 100	0.2355	0.10510
## 101	0.2605	0.08701
## 102	0.1909	0.06559
## 103	0.2733	0.08022
## 104	0.3029	0.08216
## 105	0.2767	0.07198
## 106	0.2941	0.09180
## 107	0.2121	0.07188
## 108	0.2709	0.08839
## 109	0.3059	0.07626
## 110	0.2976	0.07123
## 111	0.2806	0.09097
## 112	0.3322	0.14860
## 113	0.2894	0.08456
## 114	0.3596	0.14310
## 115	0.2433	0.06563

## 116	0.2500	0.07944
## 117	0.4753	0.10130
## 118	0.3187	0.10190
## 119	0.3070	0.08255
## 120	0.3113	0.08317
## 121	0.2364	0.07182
## 122	0.2909	0.05865
## 123	0.3244	0.06745
## 124	0.2510	0.06494
## 125	0.2851	0.08763
## 126	0.2208	0.07638
## 127	0.3147	0.14050
## 128	0.2477	0.06836
## 129	0.2841	0.06541
## 130	0.2698	0.08351
## 131	0.2866	0.11550
## 132	0.2744	0.08839
## 133	0.2473	0.06443
## 134	0.2060	0.07115
## 135	0.2780	0.11680
## 136	0.3613	0.09564
## 137	0.2445	0.08865
## 138	0.2514	0.07898
## 139	0.2623	0.07599
## 140	0.2785	0.07408
## 141	0.2341	0.07421
## 142	0.4601	0.11890
## 143	0.2572	0.06637
## 144	0.2844	0.11320
## 145	0.4264	0.12750
## 146	0.3200	0.06576
## 147	0.3792	0.10480
## 148	0.2394	0.06469
## 149	0.1901	0.05932
## 150	0.2983	0.07185
## 151	0.1917	0.06174
## 152	0.3196	0.08009

## 153	0.3549	0.08118
## 154	0.2681	0.07399
## 155	0.2272	0.08799
## 156	0.2454	0.08136
## 157	0.2335	0.06263
## 158	0.2964	0.09606
## 159	0.2699	0.06736
## 160	0.2871	0.06917
## 161	0.2027	0.06206
## 162	0.2955	0.07009
## 163	0.2362	0.07113
## 164	0.2991	0.07804
## 165	0.2908	0.07277
## 166	0.2856	0.08082
## 167	0.3062	0.06072
## 168	0.3067	0.07484
## 169	0.3849	0.08633
## 170	0.2350	0.07014
## 171	0.3900	0.11790
## 172	0.3179	0.10550
## 173	0.3196	0.11510
## 174	0.2446	0.07024
## 175	0.2884	0.07371
## 176	0.2779	0.07918
## 177	0.3537	0.08294
## 178	0.2590	0.09158
## 179	0.3799	0.09185
## 180	0.2694	0.06878
## 181	0.2668	0.08174
## 182	0.2650	0.06387
## 183	0.2823	0.06794
## 184	0.3415	0.09740
## 185	0.3292	0.06522
## 186	0.2143	0.06643
## 187	0.3109	0.09061
## 188	0.3109	0.07610
## 189	0.3055	0.05933

## 190	0.2841	0.08175
## 191	0.2792	0.08158
## 192	0.2460	0.07262
## 193	0.2688	0.08273
## 194	0.4218	0.13410
## 195	0.3437	0.08631
## 196	0.2311	0.09203
## 197	0.2654	0.09438
## 198	0.2522	0.07246
## 199	0.3518	0.08665
## 200	0.2677	0.08824
## 201	0.1565	0.05504
## 202	0.2965	0.07662
## 203	0.3163	0.09251
## 204	0.2226	0.08486
## 205	0.2765	0.07806
## 206	0.3013	0.10670
## 207	0.3210	0.07863
## 208	0.1978	0.06915
## 209	0.2267	0.06192
## 210	0.4098	0.12840
## 211	0.1999	0.07127
## 212	0.3698	0.10940
## 213	0.3313	0.13390
## 214	0.2736	0.07320
## 215	0.2581	0.10800
## 216	0.3557	0.08020
## 217	0.3071	0.08557
## 218	0.2534	0.07858
## 219	0.3985	0.12440
## 220	0.3589	0.09187
## 221	0.2369	0.06922
## 222	0.2775	0.09464
## 223	0.2968	0.09929
## 224	0.2762	0.08851
## 225	0.2710	0.06164
## 226	0.3142	0.08116

## 227	0.2848	0.13640
## 228	0.3032	0.08075
## 229	0.2928	0.07867
## 230	0.2815	0.07418
## 231	0.2884	0.07220
## 232	0.2298	0.05974
## 233	0.2398	0.10820
## 234	0.3103	0.08200
## 235	0.2407	0.06484
## 236	0.2804	0.08024
## 237	0.3000	0.08701
## 238	0.2983	0.10490
## 239	0.3409	0.08147
## 240	0.2883	0.07748
## 241	0.3068	0.07957
## 242	0.2926	0.10170
## 243	0.2376	0.09206
## 244	0.2452	0.06515
## 245	0.2749	0.12970
## 246	0.2552	0.07920
## 247	0.2349	0.08061
## 248	0.3187	0.10230
## 249	0.3105	0.07409
## 250	0.2447	0.08194
## 251	0.2177	0.08549
## 252	0.3277	0.10190
## 253	0.2157	0.10430
## 254	0.3245	0.11980
## 255	0.2160	0.07253
## 256	0.2872	0.08304
## 257	0.2471	0.07463
## 258	0.2973	0.07745
## 259	0.2383	0.06410
## 260	0.2977	0.07259
## 261	0.3049	0.07081
## 262	0.2226	0.08283
## 263	0.2837	0.08019

## 264	0.2356	0.07603
## 265	0.3530	0.08482
## 266	0.4378	0.10720
## 267	0.2868	0.07809
## 268	0.2254	0.10840
## 269	0.3100	0.08203
## 270	0.2920	0.07614
## 271	0.1988	0.07053
## 272	0.3176	0.10230
## 273	0.2523	0.06609
## 274	0.2618	0.07609
## 275	0.3193	0.09221
## 276	0.1648	0.05525
## 277	0.2369	0.06599
## 278	0.2218	0.07820
## 279	0.2458	0.06592
## 280	0.3058	0.09938
## 281	0.3751	0.11080
## 282	0.2557	0.07613
## 283	0.2880	0.08083
## 284	0.2530	0.06510
## 285	0.3216	0.07570
## 286	0.2455	0.06596
## 287	0.4724	0.10260
## 288	0.2549	0.09136
## 289	0.3126	0.07849
## 290	0.3230	0.10330
## 291	0.2475	0.06969
## 292	0.3323	0.07701
## 293	0.3080	0.09333
## 294	0.3218	0.07470
## 295	0.2741	0.08574
## 296	0.3157	0.09671
## 297	0.3077	0.07569
## 298	0.2768	0.07615
## 299	0.2781	0.08052
## 300	0.3318	0.09136

## 301	0.2443	0.06251
## 302	0.2636	0.07676
## 303	0.2738	0.07685
## 304	0.3585	0.11090
## 305	0.3993	0.10640
## 306	0.2437	0.08328
## 307	0.4089	0.14090
## 308	0.3297	0.07834
## 309	0.2852	0.09218
## 310	0.3065	0.08177
## 311	0.3220	0.06386
## 312	0.3138	0.08113
## 313	0.2518	0.06960
## 314	0.2220	0.06033
## 315	0.3739	0.10270
## 316	0.2694	0.07061
## 317	0.2364	0.07678
## 318	0.3103	0.08677
## 319	0.3169	0.08032
## 320	0.3109	0.08187
## 321	0.3231	0.10340
## 322	0.4863	0.08633
## 323	0.3689	0.08368
## 324	0.2438	0.08541
## 325	0.2901	0.06783
## 326	0.3695	0.08579
## 327	0.2226	0.07617
## 328	0.3274	0.12520
## 329	0.3196	0.06435
## 330	0.2593	0.07738
## 331	0.3105	0.08151
## 332	0.3313	0.07735
## 333	0.2090	0.07699
## 334	0.2293	0.06037
## 335	0.3414	0.07147
## 336	0.2320	0.07474
## 337	0.2233	0.05521

ı		
## 338	0.4228	0.11750
## 339	0.3679	0.09870
## 340	0.2557	0.08181
## 341	0.2778	0.07012
## 342	0.3956	0.09288
## 343	0.2736	0.07953
## 344	0.3308	0.12970
## 345	0.3480	0.07619
## 346	0.2533	0.08468
## 347	0.2434	0.07431
## 348	0.2584	0.08096
## 349	0.2282	0.06954
## 350	0.2599	0.08251
## 351	0.2136	0.06710
## 352	0.2756	0.07919
## 353	0.2372	0.07242
## 354	0.2829	0.08832
## 355	0.3321	0.08911
## 356	0.2878	0.09211
## 357	0.2989	0.07380
## 358	0.2535	0.07993
## 359	0.3063	0.08368
## 360	0.2435	0.07393
## 361	0.2238	0.07127
## 362	0.2809	0.06287
## 363	0.2409	0.06743
## 364	0.2937	0.07722
## 365	0.2227	0.07376
## 366	0.2329	0.08134
## 367	0.2463	0.07738
## 368	0.2321	0.07211
## 369	0.3390	0.07434
## 370	0.3379	0.08950
## 371	0.3155	0.07538
## 372	0.3282	0.08490
## 373	0.2554	0.07207
## 374	0.2406	0.07729

## 375	0.3270	0.07330
## 376	0.2280	0.07028
## 377	0.2722	0.06956
## 378	0.2819	0.11180
## 379	0.2758	0.06386
## 380	0.2664	0.07809
## 381	0.2513	0.06911
## 382	0.2227	0.06777
## 383	0.3020	0.06846
## 384	0.4270	0.12330
## 385	0.3060	0.06783
## 386	0.2691	0.09479
## 387	0.2833	0.08858
## 388	0.2213	0.07842
## 389	0.2651	0.07397
## 390	0.2300	0.07230
## 391	0.2972	0.09075
## 392	0.1566	0.05905
## 393	0.2346	0.08025
## 394	0.3258	0.09720
## 395	0.2806	0.07782
## 396	0.2542	0.06623
## 397	0.2787	0.07427
## 398	0.2556	0.06828
## 399	0.4045	0.07918
## 400	0.1934	0.08988
## 401	0.2502	0.09209
## 402	0.2048	0.07628
## 403	0.3672	0.11230
## 404	0.2689	0.07055
## 405	0.2845	0.12490
## 406	0.2609	0.06735
## 407	0.3153	0.08960
## 408	0.3016	0.08523
## 409	0.3585	0.10650
## 410	0.2757	0.08178
## 411	0.2639	0.11780

## 412	0.2849	0.07087
## 413	0.2300	0.06769
## 414	0.1712	0.07343
## 415	0.3101	0.06688
## 416	0.3266	0.09009
## 417	0.2676	0.06765
## 418	0.3053	0.08764
## 419	0.3271	0.07632
## 420	0.5774	0.10300
## 421	0.3108	0.12590
## 422	0.2675	0.07873
## 423	0.2859	0.06772
## 424	0.3038	0.12520
## 425	0.1811	0.07427
## 426	0.3383	0.10310
## 427	0.3124	0.07590
## 428	0.2525	0.06827
## 429	0.2262	0.06742
## 430	0.3258	0.11910
## 431	0.3470	0.07900
## 432	0.3074	0.07863
## 433	0.3379	0.07924
## 434	0.2510	0.09445
## 435	0.2540	0.09532
## 436	0.2100	0.07083
## 437	0.2567	0.05737
## 438	0.3024	0.06949
## 439	0.3220	0.09026
## 440	0.3168	0.07987
## 441	0.3596	0.09166
## 442	0.2642	0.06953
## 443	0.2834	0.08234
## 444	0.3227	0.09326
## 445	0.2853	0.08496
## 446	0.2450	0.07773
## 447	0.2663	0.06321
## 448	0.2171	0.07037

## 449	0.3397	0.08365
## 450	0.3010	0.09060
## 451	0.2615	0.08269
## 452	0.3215	0.12050
## 453	0.2576	0.07602
## 454	0.2305	0.09952
## 455	0.3075	0.07351
## 456	0.2691	0.07683
## 457	0.2710	0.07191
## 458	0.2868	0.08218
## 459		0.07848
## 466	0.2295	0.05843
## 461	0.2641	0.07427
## 462	0.3007	0.08314
## 463	0.3202	0.07287
## 464	0.1859	0.06810
## 465	0.4066	0.10590
## 466	0.2556	0.09359
## 467	0.2651	0.08385
## 468	0.2842	0.08225
## 469	0.2608	0.09702
## 476		0.07234
## 471		0.06871
## 472	0.2646	0.06085
## 473		0.06169
## 474	0.2713	0.07568
## 475	0.2404	0.06639
## 476		0.08198
## 477	0.2191	0.09349
## 478		0.07425
## 479		0.08472
## 486	0.3651	0.11830
## 481		0.08006
## 482		0.09353
## 483		0.09782
## 484		0.11620
## 485	0.2731	0.06825

## 486	0.4245	0.10500
## 487	0.3174	0.08524
## 488	0.4055	0.09789
## 489	0.2687	0.07429
## 490	0.4154	0.14030
## 491	0.3251	0.07625
## 492	0.4087	0.12400
## 493	0.3216	0.10100
## 494	0.2289	0.08278
## 495	0.2972	0.07712
## 496	0.2582	0.08893
## 497	0.2622	0.08490
## 498	0.3693	0.09618
## 499	0.2818	0.10050
## 500	0.3512	0.12040
## 501	0.4677	0.07623
## 502	0.2948	0.08452
## 503	0.3706	0.11420
## 504	0.2597	0.12000
## 505	0.2660	0.09270
## 506	0.2911	0.07307
## 507	0.2458	0.06120
## 508	0.2334	0.06142
## 509	0.2929	0.09873
## 510	0.3003	0.10480
## 511	0.3184	0.08183
## 512	0.2504	0.07948
## 513	0.4761	0.14020
## 514	0.2380	0.08718
## 515	0.4824	0.09614
## 516	0.3407	0.12430
## 517	0.2750	0.08902
## 518	0.3613	0.08758
## 519	0.3021	0.07987
## 520	0.4128	0.10760
## 521	0.3020	0.09646
## 522	0.3014	0.08750

## 523	0.3233	0.06165
## 524	0.2871	0.07039
## 525	0.2932	0.09382
## 526	0.3604	0.07062
## 527	0.2826	0.09585
## 528	0.4882	0.06111
## 529	0.3267	0.06994
## 530	0.3057	0.07875
## 531	0.2465	0.09981
## 532	0.2790	0.10660
## 533	0.2165	0.06025
## 534	0.3054	0.09519
## 535	0.3305	0.08465
## 536	0.3006	0.07802
## 537	0.3306	0.07036
## 538	0.3487	0.06958
## 539	0.2249	0.08492
## 540	0.2772	0.08756
## 541	0.3275	0.06469
## 542	0.3681	0.08982
## 543	0.2505	0.06431
## 544	0.5558	0.10240
## 545	0.5440	0.09964
## 546	0.3380	0.09584
## 547	0.1652	0.07722
## 548	0.2744	0.07238
## 549	0.2250	0.08321
## 550	0.2747	0.08301
## 551	0.2488	0.08151
## 552	0.2576	0.07018
## 553	0.4366	0.20750
## 554	0.2478	0.07757
## 555	0.2444	0.06788
## 556	0.3828	0.10070
## 557	0.2740	0.06487
## 558	0.2827	0.09208
## 559	0.1902	0.07313

```
## 560
               0.3600
                              0.07285
               0.3591
## 561
                              0.10140
## 562
               0.2661
                              0.07961
## 563
               0.2345
                              0.06464
## 564
               0.2382
                              0.08553
## 565
               0.2235
                              0.06925
## 566
               0.2434
                              0.08488
## 567
               0.3175
                              0.09772
## 568
               0.2606
                              0.07810
## 569
               0.2730
                              0.08666
```

```
#Here we use View func to get the excel style view of the data
#It is convenient to read the data
View(wisc_bc_df)

#Here we are renaming the data set for our ease
cancer<-wisc_bc_df

#After installing the following 3 packages, we use library() to execute it
#We use ggplot2 for the graphs. It lets us add details to the graphs such as aes value and color etc
#corrplot is used for correlational matrix
#reshape is for change how the data looks. eg : you can change the matrix columns of your matrix
library("ggplot2")</pre>
```

```
## Warning: package 'ggplot2' was built under R version 3.5.2
```

```
library("corrplot")
```

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

```
## corrplot 0.84 loaded
```

```
library("reshape")
```

Warning: package 'reshape' was built under R version 3.5.2

```
#str() tells us the data type of data in each column
str(cancer)
```

```
## 'data.frame':
                   569 obs. of 32 variables:
## $ id : int 87139402 8910251 905520 868871 9012568 906539 925291 87880 862989 89827 ...
## $ diagnosis : Factor w/ 2 levels "B", "M": 1 1 1 1 1 1 1 2 1 1 ...
## $ radius mean : num 12.3 10.6 11 11.3 15.2 ...
## $ texture mean
                      : num 12.4 18.9 16.8 13.4 13.2 ...
## $ perimeter mean : num 78.8 69.3 70.9 73 97.7 ...
## $ area mean
                      : num 464 346 373 385 712 ...
## $ smoothness mean : num 0.1028 0.0969 0.1077 0.1164 0.0796 ...
## $ compactness mean : num 0.0698 0.1147 0.078 0.1136 0.0693 ...
## $ concavity mean
                      : num 0.0399 0.0639 0.0305 0.0464 0.0339 ...
## $ points mean
                      : num 0.037 0.0264 0.0248 0.048 0.0266 ...
## $ symmetry mean
                      : num 0.196 0.192 0.171 0.177 0.172 ...
## $ dimension mean
                      : num 0.0595 0.0649 0.0634 0.0607 0.0554 ...
## $ radius se
                      : num 0.236 0.451 0.197 0.338 0.178 ...
## $ texture se
                      : num  0.666 1.197 1.387 1.343 0.412 ...
## $ perimeter se
                      : num 1.67 3.43 1.34 1.85 1.34 ...
## $ area se
                      : num 17.4 27.1 13.5 26.3 17.7 ...
## $ smoothness se
                      : num 0.00805 0.00747 0.00516 0.01127 0.00501 ...
## $ compactness se
                      : num 0.0118 0.03581 0.00936 0.03498 0.01485 ...
## $ concavity se
                      : num  0.0168  0.0335  0.0106  0.0219  0.0155  ...
## $ points se
                      : num 0.01241 0.01365 0.00748 0.01965 0.00915 ...
## $ symmetry se
                      : num   0.0192   0.035   0.0172   0.0158   0.0165   ...
## $ dimension se
                      : num 0.00225 0.00332 0.0022 0.00344 0.00177 ...
## $ radius worst
                      : num 13.5 11.9 12.4 11.9 16.2 ...
                      : num 15.6 22.9 26.4 15.8 15.7 ...
## $ texture worst
## $ perimeter worst : num 87 78.3 79.9 76.5 104.5 ...
## $ area worst
                      : num 549 425 471 434 819 ...
## $ smoothness worst : num 0.139 0.121 0.137 0.137 0.113 ...
## $ compactness worst: num 0.127 0.252 0.148 0.182 0.174 ...
```

```
## $ concavity_worst : num 0.1242 0.1916 0.1067 0.0867 0.1362 ...
## $ points_worst : num 0.0939 0.0793 0.0743 0.0861 0.0818 ...
## $ symmetry_worst : num 0.283 0.294 0.3 0.21 0.249 ...
## $ dimension_worst : num 0.0677 0.0759 0.0788 0.0678 0.0677 ...
```

```
#displays the summary of the dataset
summary(cancer)
```

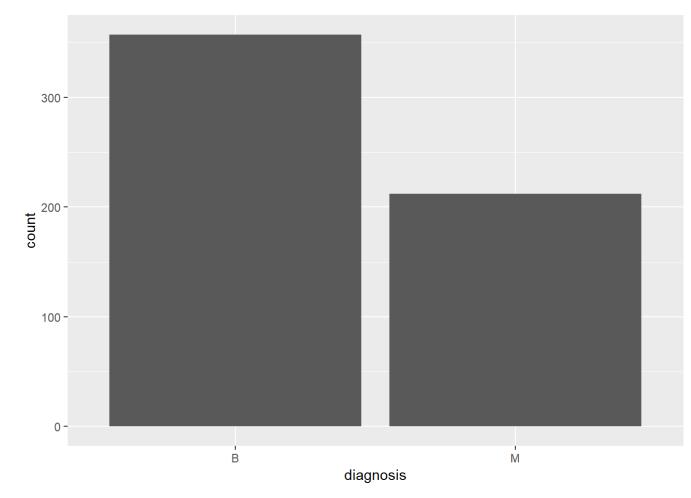
```
id
                        diagnosis radius mean
                                                     texture mean
##
   Min.
          :
                 8670
                        B:357
                                  Min.
                                        : 6.981
                                                    Min.
                                                          : 9.71
               869218
    1st Ou.:
                        M:212
                                  1st Qu.:11.700
                                                    1st Ou.:16.17
   Median :
               906024
                                  Median :13.370
                                                    Median :18.84
    Mean
          : 30371831
                                          :14.127
                                                    Mean
                                                           :19.29
                                  Mean
   3rd Qu.: 8813129
                                  3rd Qu.:15.780
                                                    3rd Qu.:21.80
##
    Max.
           :911320502
                                  Max.
                                          :28.110
                                                    Max.
                                                           :39.28
                                      smoothness_mean
   perimeter mean
                                                         compactness_mean
                       area mean
   Min.
           : 43.79
                     Min. : 143.5
                                      Min.
                                              :0.05263
                                                         Min.
                                                                :0.01938
    1st Qu.: 75.17
                     1st Qu.: 420.3
                                      1st Qu.:0.08637
                                                         1st Qu.:0.06492
   Median : 86.24
                     Median : 551.1
                                      Median :0.09587
                                                         Median :0.09263
   Mean
         : 91.97
                     Mean
                           : 654.9
                                      Mean
                                              :0.09636
                                                         Mean
                                                                :0.10434
   3rd Qu.:104.10
                     3rd Qu.: 782.7
                                      3rd Qu.:0.10530
                                                         3rd Qu.:0.13040
           :188.50
                            :2501.0
                                              :0.16340
    Max.
                     Max.
                                      Max.
                                                         Max.
                                                                :0.34540
   concavity mean
                       points mean
                                        symmetry mean
                                                          dimension mean
                             :0.00000
                                                :0.1060
   Min.
           :0.00000
                      Min.
                                        Min.
                                                          Min.
                                                                 :0.04996
    1st 0u.:0.02956
                      1st 0u.:0.02031
                                        1st 0u.:0.1619
                                                          1st 0u.:0.05770
    Median :0.06154
                      Median :0.03350
                                        Median :0.1792
                                                          Median :0.06154
   Mean
           :0.08880
                      Mean
                            :0.04892
                                        Mean
                                              :0.1812
                                                                 :0.06280
                                                          Mean
                      3rd Qu.:0.07400
                                        3rd Qu.:0.1957
                                                          3rd Qu.:0.06612
    3rd 0u.:0.13070
   Max.
           :0.42680
                             :0.20120
                                        Max.
                                                :0.3040
                                                          Max.
                                                                 :0.09744
                      Max.
      radius se
                       texture se
                                        perimeter se
##
                                                           area se
                     Min.
                                      Min.
   Min.
           :0.1115
                            :0.3602
                                              : 0.757
                                                        Min. : 6.802
    1st Qu.:0.2324
                     1st Qu.:0.8339
                                      1st Qu.: 1.606
                                                        1st Qu.: 17.850
   Median :0.3242
                     Median :1.1080
                                      Median : 2.287
                                                        Median : 24.530
           :0.4052
                           :1.2169
                                            : 2.866
   Mean
                                                              : 40.337
                     Mean
                                      Mean
                                                        Mean
   3rd Qu.:0.4789
                     3rd Ou.:1.4740
                                      3rd Qu.: 3.357
                                                        3rd Qu.: 45.190
   Max.
           :2.8730
                     Max.
                            :4.8850
                                      Max.
                                              :21.980
                                                        Max.
                                                               :542.200
```

```
smoothness_se
                      compactness se
                                           concavity se
   Min.
           :0.001713
                      Min.
                              :0.002252
                                          Min.
                                                 :0.00000
   1st Qu.:0.005169
                       1st Qu.:0.013080
                                          1st Qu.:0.01509
   Median :0.006380
                       Median :0.020450
                                          Median :0.02589
           :0.007041
                             :0.025478
   Mean
                       Mean
                                          Mean
                                                 :0.03189
   3rd Qu.:0.008146
                       3rd Qu.:0.032450
                                          3rd Qu.:0.04205
           :0.031130
                              :0.135400
                                                 :0.39600
   Max.
                       Max.
                                          Max.
                                           dimension se
##
      points se
                        symmetry se
                                                               radius worst
   Min.
          :0.000000
                      Min.
                              :0.007882
                                          Min.
                                                 :0.0008948
                                                              Min. : 7.93
   1st 0u.:0.007638
                       1st 0u.:0.015160
                                          1st 0u.:0.0022480
                                                              1st Ou.:13.01
   Median :0.010930
                      Median :0.018730
                                          Median :0.0031870
                                                              Median :14.97
          :0.011796
                      Mean :0.020542
                                                                   :16.27
   Mean
                                          Mean
                                               :0.0037949
                                                              Mean
   3rd Qu.:0.014710
                      3rd Qu.:0.023480
                                          3rd Qu.:0.0045580
                                                              3rd Ou.:18.79
   Max.
           :0.052790
                      Max.
                              :0.078950
                                          Max.
                                                 :0.0298400
                                                              Max.
                                                                     :36.04
   texture worst
                   perimeter worst
                                       area worst
                                                      smoothness worst
           :12.02
                   Min. : 50.41
                                    Min. : 185.2
   Min.
                                                      Min.
                                                             :0.07117
   1st Qu.:21.08
                    1st Qu.: 84.11
                                    1st Qu.: 515.3
                                                      1st Qu.:0.11660
   Median :25.41
                                    Median : 686.5
                   Median : 97.66
                                                      Median :0.13130
          :25.68
                                          : 880.6
   Mean
                   Mean
                         :107.26
                                     Mean
                                                            :0.13237
                                                      Mean
   3rd Qu.:29.72
                                     3rd Qu.:1084.0
                    3rd Qu.:125.40
                                                      3rd Qu.:0.14600
           :49.54
                           :251.20
                                            :4254.0
   Max.
                   Max.
                                     Max.
                                                      Max.
                                                             :0.22260
   compactness worst concavity worst
                                        points worst
                                                         symmetry worst
                            :0.0000
   Min.
           :0.02729
                     Min.
                                       Min.
                                              :0.00000
                                                         Min.
                                                                :0.1565
                     1st Qu.:0.1145
                                       1st Qu.:0.06493
                                                         1st Qu.:0.2504
   1st 0u.:0.14720
                     Median :0.2267
                                       Median :0.09993
   Median :0.21190
                                                         Median :0.2822
   Mean
         :0.25427
                           :0.2722
                                             :0.11461
                                                               :0.2901
                     Mean
                                       Mean
                                                         Mean
   3rd 0u.:0.33910
                      3rd 0u.:0.3829
                                       3rd Ou.:0.16140
                                                         3rd Ou.:0.3179
                             :1.2520
   Max.
           :1.05800
                                              :0.29100
                                                                :0.6638
                     Max.
                                       Max.
                                                         Max.
   dimension worst
   Min.
           :0.05504
   1st Ou.:0.07146
   Median :0.08004
##
   Mean
          :0.08395
   3rd Qu.:0.09208
##
   Max.
           :0.20750
```

```
#Gives you frequency table
#creating a data frame for categorizing benign & malignant
diagnosis.table <- table(cancer$diagnosis)
#shows the frequency of number of ids diagnosed with B or M
diagnosis.table
```

```
##
## B M
## 357 212
```

```
#Bar Plot
#Plotting the frequency of the 2 categories in a bar plot
ggplot(data=cancer, aes(x=diagnosis)) + geom_bar(stat = "count")
```



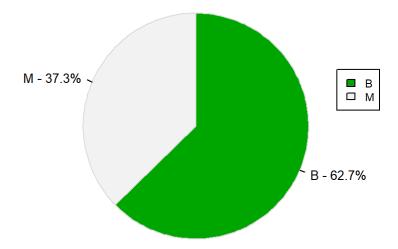
```
#Pie chart represented in frequency in terms of %
diagnosis.prop.table <- prop.table(diagnosis.table)*100
diagnosis.prop.df <- as.data.frame(diagnosis.prop.table)

#Here we labeling the 2 categories of the pie chart
pielabels <- sprintf("%s - %3.1f%s", diagnosis.prop.df[,1], diagnosis.prop.table, "%")

#using colors to show distinction
colors <- terrain.colors(2)</pre>
```

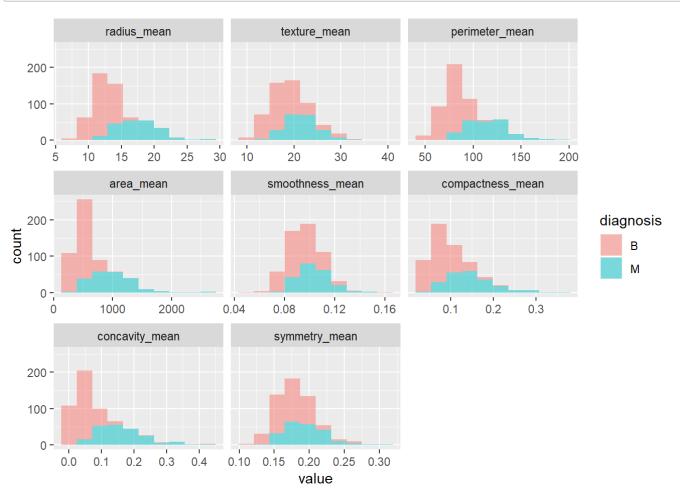
```
pie(diagnosis.prop.table,
    labels=pielabels,
    clockwise=TRUE,
    col=colors,
    border="gainsboro",
    radius=0.8,
    cex=0.8,
    main="frequency of cancer diagnosis")
legend(1, .4, legend=diagnosis.prop.df[,1], cex = 0.7, fill = colors)
```

frequency of cancer diagnosis

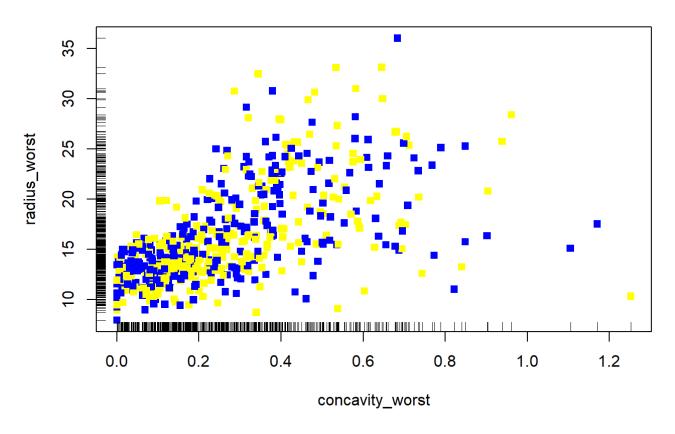


```
#Plot histograms of "mean" variables group by diagnosis
data_mean <- cancer[ ,c("diagnosis", "radius_mean", "texture_mean", "perimeter_mean", "area_mean", "smoothness_mea
n", "compactness_mean", "concavity_mean", "symmetry_mean" )]

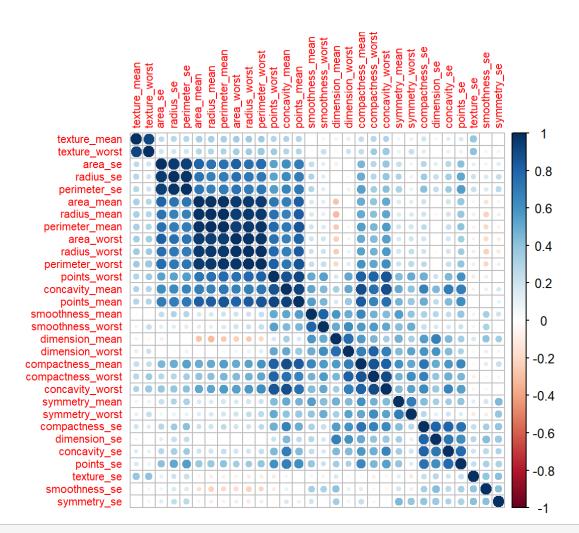
#Plot histograms for comparison
ggplot(data = melt(data_mean, id.var = "diagnosis"), mapping = aes(x = value)) +
    geom_histogram(bins = 10, aes(fill=diagnosis), alpha=0.5) + facet_wrap(~variable, scales ='free_x')</pre>
```



Concavity_worst vs radius_worst



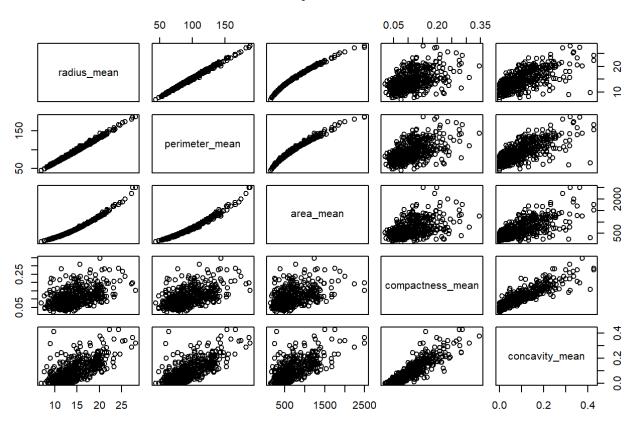
```
#Correlation Matrix of columns
corMatMy <- cor(cancer[,3:32])
corrplot(corMatMy, order = "hclust", tl.cex = 0.7)</pre>
```



#Scatterplot Matrix

pairs(~radius_mean+perimeter_mean+area_mean+compactness_mean+concavity_mean,data = cancer,main = "Scatterplot Mat
rix")

Scatterplot Matrix



```
names(cancer)
```

```
[1] "id"
                            "diagnosis"
                                                "radius mean"
## [4] "texture_mean"
                            "perimeter mean"
                                                "area mean"
   [7] "smoothness_mean"
                            "compactness_mean"
                                                "concavity_mean"
## [10] "points_mean"
                            "symmetry_mean"
                                                 "dimension_mean"
## [13] "radius_se"
                                                "perimeter_se"
                            "texture_se"
## [16] "area se"
                            "smoothness se"
                                                "compactness se"
## [19] "concavity se"
                            "points se"
                                                "symmetry se"
```

```
## [22] "dimension se"
                            "radius worst"
                                                "texture worst"
## [25] "perimeter worst"
                            "area worst"
                                                "smoothness worst"
## [28] "compactness worst" "concavity worst"
                                                "points worst"
## [31] "symmetry worst"
                            "dimension worst"
#Multivariate analysis
#T TEST
with(data=cancer,t.test(radius mean[diagnosis=="B"],radius mean[diagnosis=="M"],var.equal=TRUE))
## Two Sample t-test
## data: radius mean[diagnosis == "B"] and radius mean[diagnosis == "M"]
## t = -25.436, df = 567, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -5.726832 -4.905781
## sample estimates:
## mean of x mean of y
## 12.14652 17.46283
with(data=cancer,t.test(texture mean[diagnosis=="B"],texture mean[diagnosis=="M"],var.equal=TRUE))
##
## Two Sample t-test
## data: texture mean[diagnosis == "B"] and texture mean[diagnosis == "M"]
```

```
##
## Two Sample t-test
##
## data: texture_mean[diagnosis == "B"] and texture_mean[diagnosis == "M"]
## t = -10.867, df = 567, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -4.357107 -3.023181
## sample estimates:
## mean of x mean of y
## 17.91476 21.60491</pre>
```

```
with(data=cancer,t.test(perimeter_mean[diagnosis=="B"],perimeter mean[diagnosis=="M"],var.equal=TRUE))
## Two Sample t-test
## data: perimeter mean[diagnosis == "B"] and perimeter mean[diagnosis == "M"]
## t = -26.405, df = 567, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -40.06379 -34.51615
## sample estimates:
## mean of x mean of y
## 78.07541 115.36538
with(data=cancer,t.test(area mean[diagnosis=="B"],area mean[diagnosis=="M"],var.equal=TRUE))
## Two Sample t-test
## data: area mean[diagnosis == "B"] and area mean[diagnosis == "M"]
## t = -23.939, df = 567, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -557,8898 -473,2826
## sample estimates:
## mean of x mean of y
## 462,7902 978,3764
with(data=cancer,t.test(smoothness mean[diagnosis=="B"],smoothness mean[diagnosis=="M"],var.equal=TRUE))
##
   Two Sample t-test
##
```

```
## data: smoothness_mean[diagnosis == "B"] and smoothness_mean[diagnosis == "M"]
## t = -9.1461, df = 567, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -0.012658756 -0.008182931
## sample estimates:
## mean of x mean of y
## 0.09247765 0.10289849</pre>
```

 $with (data = cancer, t.test (compactness_mean[diagnosis == "B"], compactness_mean[diagnosis == "M"], var.equal = TRUE)) \\$

```
##
## Two Sample t-test
##
## data: compactness_mean[diagnosis == "B"] and compactness_mean[diagnosis == "M"]
## t = -17.698, df = 567, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -0.07232827 -0.05787805
## sample estimates:
## mean of x mean of y
## 0.08008462 0.14518778</pre>
```

with(data=cancer,t.test(concavity_mean[diagnosis=="B"],concavity_mean[diagnosis=="M"],var.equal=TRUE))

```
##
## Two Sample t-test
##
## data: concavity_mean[diagnosis == "B"] and concavity_mean[diagnosis == "M"]
## t = -23.104, df = 567, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -0.1244696 -0.1049646
## sample estimates:</pre>
```

```
## mean of x mean of y
## 0.04605762 0.16077472
with(data=cancer,t.test(points mean[diagnosis=="B"],points mean[diagnosis=="M"],var.equal=TRUE))
##
## Two Sample t-test
## data: points mean[diagnosis == "B"] and points mean[diagnosis == "M"]
## t = -29.354, df = 567, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -0.06643938 -0.05810581
## sample estimates:
## mean of x mean of y
## 0.02571741 0.08799000
with(data=cancer,t.test(symmetry mean[diagnosis=="B"],symmetry mean[diagnosis=="M"],var.equal=TRUE))
## Two Sample t-test
## data: symmetry mean[diagnosis == "B"] and symmetry mean[diagnosis == "M"]
## t = -8.3383, df = 567, p-value = 5.733e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -0.02313331 -0.01431262
## sample estimates:
## mean of x mean of y
## 0.174186 0.192909
with(data=cancer,t.test(dimension mean[diagnosis=="B"],dimension mean[diagnosis=="M"],var.equal=TRUE))
```

```
##
## Two Sample t-test
##
## data: dimension_mean[diagnosis == "B"] and dimension_mean[diagnosis == "M"]
## t = 0.30571, df = 567, p-value = 0.7599
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -0.001016083 0.001390684
## sample estimates:
## mean of x mean of y
## 0.06286739 0.06268009
#Hotelling T2 test
#install.packages("Hotelling")
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
t2testcan <- hotelling.test(radius mean + texture mean + perimeter mean + area mean + smoothness mean + compactne
ss mean + concavity mean + points mean + symmetry mean + dimension mean ~ diagnosis, data=cancer)
# Output of the function hotelling.test is given
cat("T2 statistic =",t2testcan$stat[[1]],"\n")
## T2 statistic = 1220.313
#print(t2testcan)
# T2 statistic is located in the first element of the list "stat"
#View(t2testcan)
```

```
## Levene's tests based on absolute differences around means using t-tests. Standarizing the sparrows data set wi
th scale()
matstand <- scale(cancer[,3:10])
matstand</pre>
```

```
radius mean texture mean perimeter mean
                                                      area mean
    [1,] -0.512845261 -1.604183e+00
                                       -0.53990056 -0.542146756
##
    [2,] -1.000920224 -7.896900e-02
                                     -0.93374423 -0.876603348
    [3,] -0.876063838 -5.718735e-01
                                      -0.86625169 -0.800448406
                                      -0.78065139 -0.767485819
    [4,] -0.807960355 -1.371681e+00
    [5.] 0.301558892 -1.413531e+00
                                      0.23379444 0.161718134
    [6,] -0.725668646 -5.804381e-02
                                       -0.73126661 -0.696729922
    [7,] -0.742694517 1.078892e+00
                                       -0.71809733 -0.714347856
##
##
    [8,] -0.090036136 1.037041e+00
                                       -0.01683336 -0.162224529
    [9,] -1.032134320 8.172307e-05
                                       -1.01070219 -0.905871851
    [10,] -0.870388548 -1.006653e+00
                                       -0.84279392 -0.798459284
   [11,] 1.833887264 4.534609e-01
                                       1.88612710 1.889980655
    [12,] -0.532708777 -3.137962e-01
                                       -0.56376987 -0.552944845
   [13,] -0.280158360 3.372098e-01
                                       -0.24647261 -0.335278109
   [14,] -0.305697166 4.731766e-03
                                       -0.38516156 -0.362841651
   [15,] 1.550122751 1.327669e+00
                                       1.47047181 1.523413958
    [16,] 0.131300184 7.882640e-01
                                        0.18194041 0.006282488
   [17,] 0.449116439 -1.246130e+00
                                        0.41281429 0.303514089
   [18.] -0.413527681 -4.625975e-01
                                       -0.44113098 -0.468833417
   [19.] 1.692005007 1.062616e+00
                                      1.75854973 1.682543687
   [20,] -0.549734648 -1.394931e+00
                                       -0.53043514 -0.565732056
## [21,] -0.685941614 -4.881728e-01
                                       -0.71151269 -0.666608937
   [22,] -0.691616904 1.197468e+00
                                       -0.64196245 -0.706107209
   [23,] -0.904440289 -1.626698e-01
                                       -0.88806330 -0.809541533
   [24,] 0.276020086 -6.741745e-01
                                        0.31322164 0.055726368
   [25,] -1.026459030 2.093336e-01
                                       -0.96008279 -0.911270896
    [26,] -0.092873781 -8.136758e-01
                                       -0.06333736 -0.201154480
   [27,] -0.192191361 -2.300954e-01
                                       -0.22095714 -0.283560947
   [28,] 0.332772989 1.390444e+00
                                        0.42927589 0.220255141
```

```
[29,] -1.282982150 -5.695485e-01
                                  -1.24816071 -1.063864939
                                  -0.26704961 -0.291233273
[30,] -0.206379587 -5.439733e-01
[31,] -0.305697166 -1.267055e+00
                                  -0.38104616 -0.353180203
[32,] -0.385151230 7.394385e-01
                                   -0.42178861 -0.422231139
[33,] 0.985431369 9.393903e-01
                                  1.11243210 0.925256673
[34,] -0.527033487 -3.184462e-01
                                  -0.55800831 -0.536463552
[35,] 0.128462539 -1.308905e+00
                                  0.09551703 0.011113212
[36,] -0.132600813 -9.624771e-01
                                   -0.15222998 -0.211100088
[37,] 1.365675817 4.697360e-01
                                  1.30174045 1.350076217
[38.] -0.632026357 -1.078728e+00
                                  -0.57035451 -0.631088909
[39,] 0.752744468 -1.138443e-01
                                  0.71323841 0.657577736
[40,] 0.599511631 -1.208194e-01
                                   0.69266142 0.426839629
[41,] 1.754433200 1.806623e+00
                                 1.68447255 1.799049381
[42,] 1.550122751 -2.649707e-01
                                  1.59393378 1.588770811
[43,] -0.768233323 2.535091e-01
                                  -0.59216612 -0.763791736
[44,] -0.322723037 -1.176379e+00
                                  -0.32466519 -0.399498321
[45,] -0.064497330 -6.206990e-01
                                  -0.12342219 -0.157677965
[46,] 1.121638336 5.929622e-01
                                  1.04658572 1.048866373
[47,] -0.850525032 -6.206990e-01
                                  -0.88477099 -0.777999748
[48,] 3.292436862 -4.253972e-01
                                  3.38413230 3.850686244
[49,] -0.175165490 -9.291913e-02
                                  -0.15922616 -0.275036140
                                  -0.47487725 -0.521687220
[50,] -0.473118229 1.395830e-01
[51,] -0.075847910 -5.486233e-01
                                  -0.04152575 -0.215930812
[52,] 0.247643635 -8.787763e-01
                                  0.22556364 0.084142391
[53.] -0.660402808 -4.718976e-01
                                  -0.68764338 -0.633646351
[54.] 0.026307314 1.990300e+00
                                  0.02390909 -0.088058708
[55,] 2.600051450 1.715947e+00
                                 2.75447627 2.927165495
[56,] -0.223405457 -7.974006e-01
                                  -0.22548408 -0.383301188
[57,] -0.677428679 -1.069428e+00
                                  -0.64443169 -0.650411804
[58,] -1.148477771 -9.717772e-01
                                  -1.16091425 -0.958725654
                                  3.05490039 3.143127271
[59,] 2.872465383 2.116587e-01
[60,] 1.496207493 -2.579956e-01
                                  1.44989481 1.392700252
[61,] 1.402565204 1.283494e+00
                                  1.49516420 1.276194557
[62,] 0.948541983 1.253268e+00
                                  0.99308554 0.936907242
[63,] 0.934353757 1.457870e+00
                                   0.92723915  0.832904598
[64,] -0.195029006 5.325116e-01
                                  -0.23824182 -0.261112289
[65,] 0.344123569 -1.169404e+00
                                   0.43339128 0.140690277
```

```
[66,] -0.507169971 6.813130e-01
                                      -0.49874657 -0.541010116
    [67,] -0.243268973 -5.276981e-01
                                      -0.30532282 -0.308282887
    [68,] 0.136975474 -8.369260e-01
                                      0.02925911 0.028446986
    [69,] -0.078685556 -9.555021e-01
                                       -0.12259911 -0.191777192
    [70,] -0.697292195 1.698083e-01
                                       -0.68970108 -0.678259507
   [71,] -0.183678426 3.558100e-01
                                       -0.14687996 -0.271910377
    [72,] -1.156990706 -4.091220e-01
                                       -1.13416416 -0.977764390
    [73,] -1.443025336 -9.059411e-02
                                      -1.31277247 -1.166162622
    [74,] 1.056372498 -1.408881e+00
                                      0.93135455 0.958219260
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## [288,] 1.635252105 2.256088e-01
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## [291,] -1.334911056 1.997275e+00
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## [292,] -0.124087878 -7.485752e-01
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## [296,] 2.980295898 5.371617e-01
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## [297.] 1.822536683 3.651101e-01
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## [301,] 1.436616945 -7.788004e-01
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## [302,] 0.037657895 -2.603207e-01
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## [304,] -0.206379587 2.860593e-01
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## [305,] 0.460467020 2.232838e-01
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## [306,] 1.811186103 1.981000e+00
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## [322,] 0.741393888 5.348366e-01
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## [323,] 1.740244975 8.696397e-01
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## [324,] -0.623513421 5.208865e-01
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## [327,] -0.027607943 4.557859e-01
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## [328,] 0.468979955 8.417395e-01
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## [329,] -0.319885392 3.465099e-01
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## [330,] 2.662479643 1.157942e+00
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## [331,] -1.245525234 -1.701834e+00
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## [332,] -0.356774779 5.820726e-02
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## [333,] -0.944167321 -2.227289e+00
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## [334.] -0.552572293 -1.211254e+00
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## [335,] 0.233455409 -3.998219e-01
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## [341,] 0.571135180 -1.029903e+00
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## [355,] 0.185215442 1.081217e+00
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## [360,] -1.360449862 6.162124e-01
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## [393,] -0.138276103 -6.857996e-01
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## [425.] -0.771070968 -1.015953e+00
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## [486,] 0.460467020 -1.619343e-02
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## [503,] 0.568297535 3.232597e-01
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         smoothness mean compactness mean concavity mean points mean
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## [148,]	0.035531446	-0.372277172	-0.378567339 -0.014667633
## [149,]	-1.478248846	-1.321668985	-0.945553145 -0.822855798
## [150,]	-0.824102360	-0.685269726	-0.782356566 -0.765643498
## [151,]	-0.799927382	-1.249716674	-1.057783720 -1.095181192
## [152,]	0.792066077	-0.397839178	-1.001825232 -0.753788697
## [153,]	-0.681896603	-0.175165709	-0.499992617 -0.464892354
## [154,]	-0.143647809	-1.030072776	-0.986948126 -1.119096964
## [155,]	-0.625014299	1.197798000	0.594591043 0.440711350
## [156,]	0.322787076	-0.847919820	-0.773952131 -0.898365725
## [157,]	-1.200236590	-1.208438769	-0.863390379 -0.941661520
## [158,]	1.872829837	0.330583300	0.195693949 0.200265062
## [159,]	-1.062297005	-1.130806012	-0.863892136 -0.974391079
## [160,]	-0.628569443	-0.518075277	-0.517930443 -0.388609287
## [161,]	-1.621876662	-1.018522537	-0.704835056 -0.578286101

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## [162,]	-1.149042517	0.260524471	0.049431681 0.179390304
## [163,]	-0.634968702	-0.935777379	-0.925482851 -0.722605416
## [164,]	-1.870736738	-1.385668673	-1.067718516 -1.171232316
## [165,]	-0.209062458	0.438511767	0.988470563 1.324151730
## [166,]	0.927161547	1.648446686	2.487470647 3.579141030
## [167,]	0.191957779	-0.532087043	-0.395877967 -0.074457063
## [168,]	-0.452945332	0.434724804	0.102492521 0.673941672
## [169,]	-0.179199249	-0.366596727	0.051815029 -0.363095694
## [170,]	-1.203080705	-0.768393581	-0.752502004 -0.918209631
## [171,]	1.382219972	0.355198565	0.423993544 0.630903590
## [172,]	0.685411759	0.169637341	0.298554206 0.404889234
## [173,]	1.602638897	1.139100062	0.060972100 0.281702390
## [174,]	-1.194548360	-0.411850943	-0.603103753 -0.708688911
## [175,]	-0.418104922	-0.785056221	-0.379069096 -0.374692781
## [176,]	0.211866585	-0.168159826	-0.626059152 -0.664104551
## [177,]	0.635639744	0.423363912	0.545669701 1.057160996
## [178,]	-1.347419549	-1.072865467	-0.773701252 -1.073971407
## [179,]	0.962712987	1.216732819	1.362279789 1.339614513
## [180,]	-1.154019719	-1.211089644	-0.814970794 -0.804558170
## [181,]	-0.035571433	-0.444418832	-0.588678229 -0.202282742
## [182,]	-0.332781467	-0.380608493	0.111524153 0.449989020
## [183,]	-0.311450603	-0.797742550	-0.980550720 -0.766674350
## [184,]	-0.540401874	-0.160207202	-0.166825737 -0.209498708
## [185,]	0.642750032	-0.692086261	-1.051097803 -1.065286476
## [186,]	-0.794950180	-1.081764831	-0.958849714 -0.907901109
## [187,]	1.261345078	1.000875885	1.281998613 1.548362094
## [188,]	-0.146491924	-0.137296071	0.332422827 0.503851050
## [189,]	-1.149042517	-0.354099746	0.334931614 0.730380832
## [190,]	-0.425926238	-1.087823973	-0.975533146 -0.898108012
## [191,]	0.060417453	0.177211268	0.071132687 0.270878441
## [192,]	-0.543245989	-0.983114426	-0.786997822 -0.797857631
## [193,]	-1.093582271	-0.356939969	-0.419084245 -0.430616516
## [194,]	1.247124502	1.044425968	0.942058008 0.637088704
## [195,]	-0.027750117	-0.309602922	-0.286871183 0.076562792
## [196,]	1.787506382	1.415548416	1.315867234 2.525094603
## [197,]	0.429441395	-0.125935180	0.435283084 0.428083410
## [198,]	-0.470721052	-0.346147122	-0.724779910 -0.498652765

## [199,]	0.792066077	0.179104750	-0.586922078 -0.448398717
## [200,]	-1.086471984	-0.494406753	-0.256013106 -0.607665390
## [201,]	-0.177066162	-1.004132074	-0.813089204 -0.513600122
## [202,]	-0.593729033	-0.888250984	-0.660554970 -0.898881152
## [203,]	-0.797083266	-0.034858702	-0.253504319 -0.261814460
## [204,]	0.211155557	0.313541963	0.222036210 0.290980060
## [205,]	1.325337669	-0.597033471	-0.611382749 -0.423142837
## [206,]	1.559977170	1.565133484	1.432525818 0.935005004
## [207,]	-0.802060468	-0.867043987	-0.691538486 -0.802754179
## [208,]	0.236041564	-0.855872444	-0.777088114 -0.354848876
## [209,]	-1.606945057	-1.291373275	-1.079296566 -1.146826889
## [210,]	1.261345078	3.386663049	2.005783591 2.594677130
## [211,]	-1.292670332	-0.161721988	0.284755879 -0.387063009
## [212,]	1.232903927	0.608925136	0.508037900 0.832692918
## [213,]	0.763624926	1.489394209	1.008540857 0.786562280
## [214,]	-0.905159642	-0.352016916	-0.477037219 -0.522620080
## [215,]	0.308566501	0.048454501	-0.472270524 -0.855843070
## [216,]	1.211573063	-0.449341885	-0.977916494 -0.928260441
## [217,]	1.147580472	0.139341631	-0.627188106 -0.488859668
## [218,]	-0.501295290	0.122300294	-0.478793369 -0.472623745
## [219,]	2.235454519	1.243241565	0.865540012 0.823930674
## [220,]	-0.851121454	0.192359123	0.546924094 1.239621845
## [221,]	0.022021899	-0.386478286	-0.952326869 -0.764870359
## [222,]	-0.605105493	-0.878594226	-0.817855899 -0.641683515
## [223,]	1.325337669	1.133419616	1.642009512 1.476202437
## [224,]	0.984043850	-0.202999892	-0.538000737 -0.685237022
## [225,]	-0.600128292	-1.161101722	-1.113892736 -1.260710292
## [226,]	0.784955789	-0.868558772	-1.113892736 -1.260710292
## [227,]	2.071917898	2.197556431	0.376326595 0.553074245
## [228,]	1.204462775	0.843716889	1.561728336 1.983897171
## [229,]	-0.474987225	0.292713663	0.185658802 0.669045123
## [230,]	-0.945688283	-1.131563405	-1.101678707 -1.184916880
## [231,]	-0.198397026	-0.352206264	-0.215747078 -0.740903044
## [232,]	-0.678341459	-1.110167060	-0.849341173 -0.731367661
## [233,]	-1.279160785	2.252467405	2.653050573 0.748936173
## [234,]	1.460433139	0.521824970	0.740100674 0.926758186
## [235,]	-0.967019147	-1.173977399	-0.863390379 -0.874398411

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## [236,]	1.168911336	-0.221745363	-0.577137810 -0.453552979
## [237,]	0.571647153	1.773416490	1.014812824 1.027266281
## [238,]	0.514764850	-0.530572257	-0.792140835 -0.871563567
## [239,]	0.014911611	-0.605932836	-0.815472552 -0.844503695
## [240,]	0.756514638	-0.845079597	-0.507895296 -0.469531189
## [241,]	0.941382123	0.446085695	0.114032940 0.091252436
## [242,]	1.325337669	-0.422833138	-0.595577393 -0.764870359
## [243,]	-1.185304985	-0.829553045	-0.645376810 -1.128555033
## [244,]	-0.692562034	-0.784677525	-0.751247611 -0.529578332
## [245,]	0.699632335	1.525370364	1.917976055 1.249414941
## [246,]	-0.814147957	-1.023256241	-0.820741004 -1.012919182
## [247,]	-1.080072724	-1.234947515	-1.082909219 -1.127756123
## [248,]	-0.568131996	0.353305083	0.151790181 -0.258206477
## [249,]	-0.736645819	-0.850381346	-0.914695068 -1.108221473
## [250,]	-0.852543512	-0.754381815	-0.605236222 -0.759458384
## [251,]	0.175604117	0.607031654	-0.145375610 0.322163341
## [252,]	1.033815866	3.920624938	2.870060627 2.287998585
## [253,]	-0.903737585	0.133661185	0.149281394 -0.550195377
## [254,]	1.894160700	2.901931689	2.886367741 1.826692202
## [255,]	2.022145883	-0.128586055	0.153044574 0.444061620
## [256,]	0.571647153	-0.809482138	-0.857118412 -0.936764972
## [257,]	-0.887383923	-0.498761762	-0.007894096 -0.506899583
## [258,]	-0.553200392	-0.969670704	-0.764795059 -0.719512860
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## [260,]	0.101657123	-0.436466208	-0.277964990 -0.028584138
## [261,]	0.464992834	-0.128018010	-0.513916384 -0.403556645
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## [263,]	0.912940971	0.340050710	0.725047954 0.823415248
## [264,]	-1.169662352	-0.967209178	-0.738201920 -0.727244252
## [265,]	1.659521200	0.856971262	1.917976055 1.839577855
## [266,]	2.199903080	1.682529360	1.218024551 1.149679986
## [267,]	-1.124867538	-0.857197881	-0.389606000 -0.984699602
## [268,]	0.104501238	0.923243128	-0.034361796 -0.520558375
## [269,]	-1.026745565	-0.991067050	-0.898889711 -0.935734120
## [270,]	0.450772259	0.974367138	1.456359292 1.029327985
## [271,]	-1.131977826	-0.291425496	-0.186896031 -0.208467856
## [272,]	0.073927000	2.678500827	1.476429586 1.620521752

## [273,]	-1.131266797	-0.960581991	-0.777589872 -0.422885124
## [274,]	-0.329937352	-0.682618852	-0.690911289 -0.675186213
## [275,]	-0.791395036	0.728214494	0.283501485 0.484522570
## [276,]	1.268455366	0.894840900	2.901420462 2.849813062
## [277,]	-0.034860404	-0.395566999	-0.257894696 0.015227083
## [278,]	-0.839744994	-0.038645666	0.046546577 0.105684368
## [279,]	-1.567838474	-1.175302836	-1.113892736 -1.260710292
## [280,]	-1.093582271	-1.052037166	-1.113892736 -1.260710292
## [281,]	0.720963198	2.087734482	0.998505710 1.522590788
## [282,]	-0.799927382	-1.140084073	-1.050332623 -1.114741613
## [283,]	-0.888805980	-0.878594226	-1.019687793 -1.041963444
## [284,]	-0.151469126	-0.720299141	-0.523700652 -0.299182854
## [285,]	0.063972597	-0.272490677	0.022713102 0.421382870
## [286,]	-0.707493639	-0.707423464	-0.462611695 -0.541433133
## [287,]	-0.123027974	0.497209705	0.284755879 0.404631521
## [288,]	0.521875137	0.504783633	0.656056318 1.169781605
## [289,]	0.308566501	1.065254268	2.288022101 2.115330833
## [290,]	0.799176365	0.550227198	-0.108245566 0.046925790
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## [292,]	-0.948532398	-0.768772277	-0.793269789 -0.737295061
## [293,]	1.680852064	0.423363912	0.623442090 0.421125157
## [294,]	-0.287986653	-0.617104379	-0.562963165 -0.738325913
## [295,]	0.706742623	1.724185962	1.956862249 2.607562783
## [296,]	0.472103122	2.011995207	1.783755963 2.530248864
## [297,]	0.585867728	1.317087358	1.501517454 2.146256400
## [298,]	0.138630620	-0.031071738	0.741355068 1.187048380
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## [300,]	0.443661971	1.608683567	1.690930854 1.108703609
## [301,]	-0.669809113	0.268098398	0.382598562 1.230601888
## [302,]	-2.175768089	-0.987280086	-0.803430375 -0.906612543
## [303,]	-1.508112056	-1.271681064	-1.075131980 -1.090928926
## [304,]	1.012485002	0.805847251	0.698705693 0.845320859
## [305,]	0.436551683	0.304074554	0.324896467 0.404631521
## [306,]	-0.339180726	0.057921910	0.835434571 0.888616653
## [307,]	0.600088304	1.976019051	2.084810374 1.169266179
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## [309,]	-1.065141120	0.234015725	0.021333270 -0.342736362

## [310,]	0.621419168	0.281352772	-0.127939542 -0.113629449
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## [312,]	0.315676789	-0.004562992	0.474169279 0.891966923
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## [321,]	-0.086765506	0.885373490	0.822890637 -0.011832789
## [322,]	-0.018506742	0.554014162	0.577029535 0.290206921
## [323,]	-0.396774058	0.510464079	0.723793560 0.977012234
## [324,]	0.093835806	-0.489483700	-0.696430620 -0.743222462
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## [328,]	1.360889109	1.341702622	1.561728336 1.182151832
## [329,]	1.218683351	-0.538714229	-0.720514973 -0.579059240
## [330,]	0.749404350	0.453659622	1.781247177 2.373043896
## [331,]	-0.274477106	-1.198971360	-1.113892736 -1.260710292
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## [334,]	-1.352396751	-1.367491247	-0.973024360 -1.130539424
## [335,]	1.446212563	0.495316224	0.816618670 0.961807163
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## [337,]	-1.564283330	-1.473904928	-1.098915279 -1.120282444
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## [340,]	0.564536865	0.483955332	0.380089775 0.339945542
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## [345,]	0.315676789	0.455553104	0.194439556 0.185833130
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## [350,]	0.472103122	-0.230266032	-0.431377300 -0.159244661
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## [353,]	-1.075806552	-0.872913780	-0.336796039 -0.656888585
## [354,]	-0.623592242	-0.730713292	-0.470012616 -0.771313185
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## [373,]	-0.940711082	-1.180036541	-1.016601986 -1.040752193
## [374,]	-0.390374799	-0.491566530	-0.748111627 -0.867182445
## [375,]	-0.748733309	-0.947516966	-0.741839660 -0.675186213
## [376,]	-1.609789172	-1.210142903	-1.023915099 -0.964597983
## [377,]	-0.967730176	-0.609719800	-0.598964255 -0.480612850
## [378,]	0.557426577	0.480168369	-0.374804158 -0.518496671
## [379,]	-0.182754393	-1.242521443	-1.095239906 -1.174814528
## [380,]	0.351228228	-0.497246976	-0.570991283 -0.505868731
## [381,]	-0.676919401	-0.777103597	-0.945553145 -0.669774239
## [382,]	0.365448804	-0.688677994	-0.800921588 -0.777498299
## [383,]	-0.136537521	-0.092231203	0.396396889 0.011876813

## [384,] 0.543206001 0.976260620 0.584555896 0.737083 ## [385,] 0.607198592 -0.366407378 -0.574252705 -0.592202	_
$\frac{\pi\pi}{1000}$ [303,] 0.00/130332 -0.30040/3/0 -0.3/4232/03 -0.392202	nii /
## [386,] -0.539690845 -0.448395144 -0.567228102 -0.632405	
## [387,] -0.167111759 1.737440335 1.639500725 1.543207	
## [388,] 0.742294062 -0.711210428 -0.825758577 -0.801981	
## [389,] -0.105252255 -0.364135200 -0.031978449 -0.103836	
## [390,] -0.148625011 -0.704772590 -0.420714956 -0.084765	
## [391,] 0.256661399 0.512357560 1.016067217 0.876504	
## [392,] -1.555039956 -1.301976774 -1.113892736 -1.260716	
## [393,] -1.387237161 -0.828416956 -0.880951886 -0.816676	
## [394,] 0.401000243 0.775551541 1.295796940 1.229828	
## [395,] -0.255279329 -0.601956524 -0.894123016 -0.776209	
## [396,] -1.855805133 -1.060936531 -0.857369290 -1.041473	
## [397,] 0.884499820 0.235909207 -0.223649757 -0.101774	
## [398,] -0.310028546 -0.014030401 0.293536632 0.667756	
## [399,] 0.114455641 0.559694607 1.223042124 1.581864	
## [400,] 0.429441395 -0.971942883 -1.028230212 -1.056163	434
## [401,] -0.102408139 -0.381555233 -0.821619079 -0.638075	532
## [402,] -1.792523571 -0.588702151 -0.098837616 -0.539113	716
## [403,] -0.167111759 1.279217721 0.964637089 0.69610 ⁴	995
## [404,] -0.135115464 0.061708874 0.801565950 1.043502	204
## [405,] -0.961330917 0.340050710 0.153044574 -0.530609	185
## [406,] -0.345579985 0.165850377 0.115287334 0.745585	903
## [407,] 0.173471031 0.747149313 -0.279595701 0.130167	109
## [408,] -0.187020565 -0.709884991 -0.673349782 -0.584728	928
## [409,] 1.410661124 1.146673989 1.006032070 1.038863	
## [410,] -0.833345735 -1.201811582 -0.906666950 -0.831102	
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## [412,] -1.957482250 -1.253692986 -0.909050297 -1.180174	
## [413,] -1.310446052 -1.002617289 -0.831528787 -1.057761	
## [414,] 0.621419168 -0.821600422 -0.663314635 -0.590656	
## [415,] -1.296225476 -1.153906491 -0.832281423 -0.548649	
## [416,] 0.891610108 0.766084132 1.716018721 1.816383	
## [417,] 0.002113093 -0.671257961 -0.674478736 -0.519785	
## [418,] 0.081748317 0.180998232 -0.109499959 -0.172388	
## [419,] 0.191246750 1.184543627 0.944566795 1.999359	
## [420,] 0.905830684 1.243241565 0.967145875 0.650232	0/0

## [421,]	0.770735214	1.051999895	4.039155254 0.764141244
## [422,]	-0.412416691	-0.634903109	-0.454959895 -0.401494940
## [423,]	0.083881403	-1.007540342	-0.865271969 -0.800434761
## [424,]	4.766717009	2.263828296	0.106632019 0.092798715
## [425,]	-0.410283605	-0.431543155	-0.338552190 -0.652249750
## [426,]	1.126249608	0.413896503	0.301062993 0.510551590
## [427,]	1.382219972	0.307861518	-0.967003271 -0.800177048
## [428,]	-0.506272492	-0.636228546	-0.694172712 -0.519269810
## [429,]	0.280125349	-0.554808825	-1.050859469 -0.973102514
## [430,]	2.640740929	2.349034981	1.956862249 1.940085950
## [431,]	-0.268788876	-0.487022174	-0.450945836 -0.465665493
## [432,]	0.742294062	0.387387757	0.854250472 1.174935866
## [433,]	0.061839511	-0.618997861	-0.593194045 -0.780590856
## [434,]	0.344117940	0.518038006	0.756407788 1.105868765
## [435,]	-0.512671751	0.131767703	0.072387080 -0.329592995
## [436,]	-0.232526408	-0.970996142	-0.892492305 -0.556380491
## [437,]	-0.506983520	-0.861552889	-0.107869248 0.245107135
## [438,]	-1.205213791	-0.959635250	-0.628066181 -0.648126341
## [439,]	0.082459346	-0.977433980	-0.855362261 -1.059719874
## [440,]	0.891610108	0.184785196	-0.255511348 -0.297378863
## [441,]	-0.040548635	0.154489486	-0.222395363 -0.500456756
## [442,]	-0.277321222	-0.698145403	-0.740836146 -0.631117279
## [443,]	0.536095713	0.964899729	1.018576004 1.011030358
## [444,]	0.763624926	0.211293942	-0.388100728 0.096406698
## [445,]	0.125121073	0.482061850	0.663582678 1.009999506
## [446,]	0.429441395	-0.746429191	-0.743094054 -0.725697973
## [447,]	-1.132688855	-0.686784512	-0.524704167 -0.656630872
## [448,]	-1.388659219	-1.238734479	-1.094499814 -1.116597147
## [449,]	-0.194130853	0.209400460	-0.281477291 -0.450975848
## [450,]	0.186269549	0.126087258	0.149281394 0.396642416
## [451,]	0.635639744	-0.513530920	-1.030563384 -0.947331207
## [452,]	0.500544274	0.586203354	0.247124077 -0.085023299
## [453,]	0.329897364	0.519931488	1.214261371 1.370540081
## [454,]	-2.149460023	0.038987091	-0.012911669 -0.645806924
## [455,]	0.097390950	-0.438170342	-0.793395228 -0.699153528
## [456,]	0.237463622	-0.042432629	-0.049289077 0.164958372
## [457,]	2.327888262	0.006797899	-0.251246411 0.428856549

I	## [458,]	-0.118761802	0.188572160	0.600863010 0.967476850
	## [459,]	-0.354112331	-1.166024775	-1.113892736 -1.260710292
	## [460,]	-2.406852445	-1.608720838	-1.093885161 -1.212981833
	## [461,]	0.856058668	1.788564345	3.445827187 3.092063341
	## [462,]	0.386779668	0.654368701	0.885610306 0.992732731
	## [463,]	-1.172506467	-0.635281805	-0.669084845 -0.726213399
	## [464,]	-0.582352572	-0.703636501	-0.981554235 -1.004620821
	## [465,]	1.581308033	2.333887126	1.682150100 2.349849720
	## [466,]	0.642750032	0.516144524	-0.142866823 -0.539371429
	## [467,]	-0.799927382	-0.981410292	-1.095566049 -1.176670062
	## [468,]	-0.489918829	0.357092047	0.253396044 0.351027204
	## [469,]	0.692522047	0.127980740	-0.270187751 -0.238877997
	## [470,]	-0.837611907	-0.859470059	-0.670590117 -0.502003035
	## [471,]	-0.630702530	-0.725790239	-0.723525517 -0.522620080
	## [472,]	-0.863919973	-0.962286125	-0.869662345 -0.761004663
	## [473,]	-0.464321793	-1.262592351	-0.792517153 -0.507415009
	## [474,]	-0.864631001	0.163956895	0.322387680 0.449731307
	## [475,]	-0.628569443	-0.839588499	-0.816977824 -0.648126341
	## [476,]	0.078193173	0.139341631	0.303571779 0.788108559
	## [477,]	-1.920508753	0.056028428	-0.117528077 -0.493240790
	## [478,]	0.034109388	0.249163580	0.858013652 1.715875585
	## [479,]	-0.457922534	-0.115710378	-0.368783070 -0.018791042
	## [480,]	1.410661124	1.207265409	0.588319076 0.481172301
	## [481,]	0.976933562	0.105258957	-0.004758112 0.228355786
	## [482,]	0.082459346	0.184785196	0.063731766 0.244076283
	## [483,]	0.713852911	1.597322676	1.795045504 1.945240211
	## [484,]	0.044774820	0.474487923	0.525599407 -0.303048550
	## [485,]	-1.475404731	-1.288343704	-1.009702822 -0.961247713
	## [486,]	1.986594443	2.500513531	2.541409563 1.940085950
	## [487,]	-0.490629858	-0.790736667	-0.744097568 -0.870532715
	## [488,]	2.576748338	3.265480209	4.234840621 3.437398846
	## [489,]	-1.636097238	-0.976865935	-0.888101928 -0.937022685
	## [490,]	1.794616670	2.102882337	1.004777677 0.380148780
	## [491,]	0.265904773	0.465020514	0.353747514 0.739658503
	## [492,]	1.524425730	3.269267173	3.294045588 2.656528265
	## [493,]	2.086138474	0.968686693	1.435034605 1.566402009
	## [494,]	0.036242474	-0.129154099	-0.453705502 -0.542206272

## [495,]	1.986594443	-0.278549819	-0.737574723 -1.022093767
## [496,]	1.808837246	1.169395772	-0.508647932 0.105942081
## [497,]	0.294345925	-0.139568250	-0.341939052 -0.480097424
## [498,]	0.055440252	0.006797899	-0.077889246 0.092798715
## [499,]	-0.267366818	1.930575486	1.123945047 1.687527148
## [500,]	0.706742623	1.127739170	1.082550066 0.903821724
## [501,]	-1.520910574	-0.629033315	-0.656164593 -0.666166256
## [502,]	-1.016791162	-0.712914562	-0.700068361 -0.404329784
## [503,]	1.467543427	1.852942729	1.046172658 1.388579995
## [504,]	-0.400329202	1.167502290	1.746124162 0.270363015
## [505,]	1.503094866	0.832355998	0.165588508 0.173205190
## [506,]	-1.319689426	-1.298947203	-1.051587017 -1.094897707
## [507,]	-2.280289321	-1.469171223	-1.022949216 -1.099639628
## [508,]	-0.827657504	-1.025907116	-0.685391958 -0.605861399
## [509,]	0.962712987	2.258147851	2.867551840 2.537980256
## [510,]	1.112029032	0.998982403	0.795293983 0.924954195
## [511,]	0.792066077	0.429044358	-0.540885842 -0.459222666
## [512,]	-0.555333478	-0.645127911	-0.399013951 -0.038119521
## [513,]	1.033815866	0.894840900	0.413958397 0.074758800
## [514,]	0.007090294	-0.326265563	-0.626184591 -0.600191712
## [515,]	0.075349058	0.858864744	1.157813669 1.000206409
## [516,]	0.884499820	1.430696271	1.012304037 0.507459033
## [517,]	-0.826235447	-0.486643478	-0.023824892 0.547662271
## [518,]	0.941382123	1.051999895	1.362279789 2.035439783
## [519,]	1.311117093	0.836142961	1.108892327 1.471048175
## [520,]	0.273015061	0.832355998	-0.021943302 0.054141755
## [521,]	0.127965188	-0.057580484	-0.319234532 -0.689102718
## [522,]	0.233908478	0.027626200	-0.109750838 -0.275988678
## [523,]	-0.935733880	-1.103729221	-0.526084000 -0.554834212
## [524,]	-3.109348889	-1.149740831	-1.113892736 -1.260710292
## [525,]	1.467543427	-0.542690541	-1.113892736 -1.260710292
## [526,]	-0.150047068	-0.798121246	-0.624679319 -0.844503695
## [527,]	-1.232232885	-0.550075120	-0.431753618 -0.736006496
## [528,]	-0.877429520	-0.702879108	-0.199063646 0.181452008
## [529,]	-0.656299566	-1.027421902	-0.812963765 -0.700699806
## [530,]	-0.942133139	-0.947895663	-0.928367955 -1.112035626
## [531,]	-0.733090675	-0.061367448	-0.289254530 -0.283720070

## [532,]	-0.688295862	0.294607145	0.046672016 -0.909189674
## [533,]	-1.237210087	-1.119445121	-0.938026784 -0.787806821
## [534,]	0.138630620	0.970580175	1.135234588 1.024173724
## [535,]	0.365448804	1.033065077	2.078538407 1.700412801
## [536,]	-0.423793152	-0.409957462	-0.381954201 -0.467469484
## [537,]	-0.079655218	-0.939374994	-0.733058907 -0.673639935
## [538,]	-0.584485658	-0.981031596	-0.915322264 -0.964855696
## [539,]	-0.041259664	-0.048113075	-0.651272459 -0.650188046
## [540,]	-0.464321793	-0.550832513	-0.587549275 -0.397371531
## [541,]	-0.614348868	-0.592678463	-0.242089339 0.128363117
## [542,]	2.896711293	0.343837673	-0.695928863 -0.636786967
## [543,]	-0.883828779	-1.177385666	-1.090561019 -1.185354992
## [544,]	1.467543427	1.574600893	2.103626274 2.615294175
## [545,]	2.292336822	4.564408776	3.595099999 2.873007238
## [546,]	0.294345925	-0.471684971	-0.341813613 -0.392217270
## [547,]	-0.123739003	0.377920347	0.048051849 -0.665908543
## [548,]	0.028421158	-0.469980837	-0.776711796 -0.801723327
## [549,]	0.208311441	0.156382968	-0.554182411 -0.151513269
## [550,]	0.479213410	-0.254123903	-0.286996622 -0.552257082
## [551,]	-1.482515019	-0.401058097	-0.345451353 -0.779560003
## [552,]	-1.679469994	-0.827470215	-0.548788520 -0.881614376
## [553,]	1.581308033	2.561104951	1.737343408 0.940932405
## [554,]	0.777845502	-0.136538679	-0.451322154 -0.116464292
## [555,]	-0.600839321	-0.990120309	-0.766174892 -0.727759678
## [556,]	1.446212563	1.976019051	2.410952652 2.764767751
## [557,]	-0.206929371	-0.841292633	-0.782983763 -0.727501965
## [558,]	0.479213410	1.500755100	0.704977660 0.362882005
## [559,]	0.301456213	-0.888250984	-0.817479581 -0.595037450
## [560,]	-0.324960150	-0.292372237	-0.603480071 -0.678278770
## [561,]	0.132942390	0.103365475	0.540652128 0.181967434
## [562,]	-0.684740718	-0.736393737	-0.863766697 -0.824659789
## [563,]	-1.877847026	-0.986712041	-0.677865598 -0.813062702
## [564,]	1.211573063	-0.302975736	-0.637223253 -0.384485878
## [565,]	-1.542952466	-0.840724589	-0.504382994 -0.521073801
## [566,]	0.174893088	-0.241437575	-0.664694468 -0.735748783
## [567,]	-0.411705663	0.016265309	-0.439656296 -0.419792568
## [568,]	0.962712987	-0.225721675	-0.248988503 0.413136052

```
## [569,]
              0.265904773
                               0.892947418
                                               1.309595267 1.973588648
## attr(,"scaled:center")
        radius mean
                                        perimeter mean
##
                        texture mean
                                                               area mean
##
        14.12729174
                         19.28964851
                                           91.96903339
                                                           654.88910369
    smoothness mean compactness mean
                                        concavity mean
                                                            points mean
##
         0.09636028
                                            0.08879932
                          0.10434098
                                                             0.04891915
## attr(,"scaled:scale")
##
        radius mean
                                        perimeter mean
                        texture mean
                                                              area mean
##
         3.52404883
                          4.30103577
                                           24.29898104
                                                           351.91412918
    smoothness mean compactness mean
                                        concavity mean
                                                            points mean
##
         0.01406413
                          0.05281276
                                            0.07971981
                                                             0.03880284
```

```
matsurv <- matstand[cancer$diagnosis =="B",]
matsurv</pre>
```

```
radius mean texture mean perimeter mean
##
                                                       area mean
     [1,] -0.512845261 -1.604183e+00
##
                                        -0.53990056 -0.542146756
##
     [2,] -1.000920224 -7.896900e-02
                                        -0.93374423 -0.876603348
     [3,] -0.876063838 -5.718735e-01
                                        -0.86625169 -0.800448406
     [4,] -0.807960355 -1.371681e+00
                                        -0.78065139 -0.767485819
##
##
     [5,] 0.301558892 -1.413531e+00
                                         0.23379444 0.161718134
##
     [6,] -0.725668646 -5.804381e-02
                                        -0.73126661 -0.696729922
##
     [7,] -0.742694517 1.078892e+00
                                        -0.71809733 -0.714347856
    [8.] -1.032134320 8.172307e-05
                                        -1.01070219 -0.905871851
    [9,] -0.870388548 -1.006653e+00
                                        -0.84279392 -0.798459284
    [10,] -0.532708777 -3.137962e-01
                                        -0.56376987 -0.552944845
   [11,] -0.280158360 3.372098e-01
                                        -0.24647261 -0.335278109
   [12,] -0.305697166 4.731766e-03
                                        -0.38516156 -0.362841651
    [13,] 0.131300184 7.882640e-01
                                         0.18194041 0.006282488
   [14,] 0.449116439 -1.246130e+00
                                         0.41281429 0.303514089
    [15,] -0.413527681 -4.625975e-01
                                        -0.44113098 -0.468833417
    [16,] -0.549734648 -1.394931e+00
                                        -0.53043514 -0.565732056
   [17,] -0.685941614 -4.881728e-01
                                        -0.71151269 -0.666608937
    [18,] -0.691616904 1.197468e+00
                                        -0.64196245 -0.706107209
    [19,] -0.904440289 -1.626698e-01
                                        -0.88806330 -0.809541533
    [20,] 0.276020086 -6.741745e-01
                                         0.31322164 0.055726368
```

```
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## [211,] 0.571135180 -1.029903e+00
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## [213,] -1.234458418 -5.346732e-01
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## [232,] -0.518520551 -6.269385e-02
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## [246,] -0.830661516 2.343703e+00
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## [247,] -0.138276103 -6.857996e-01
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## [249.] -0.070172620 -7.276500e-01
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## [250,] -0.714318065 -7.602003e-01
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## [251,] -1.231620773 1.512081e-01
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## [252.] -1.214594902 -8.392510e-01
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## [255,] 0.579648115 -7.485752e-01
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##	[75,]	-1.026745565	-0.725600890	-0.919712641 -1.050416433
##	[76,]	0.386779668	-0.843754160	-1.001561809 -0.983411036
##	[77,]	1.268455366	-0.050006557	-0.227036619 -0.362580268
##	[78,]	-0.164267644	0.495316224	0.543160914 -0.701988371
##	[79,]	-0.710337754	-1.035374525	-0.906039753 -0.973360227
##	[80,]	0.841838093	0.493422742	0.090701223 0.183256000
##	[81,]	-0.605105493	-0.813837146	-0.935768876 -0.966659687
##	[82,]	-1.537264236	-0.898665134	-0.866275483 -0.922333040
##	[83,]	-0.398196116	-0.861174193	-0.789381169 -0.662300560
##	[84,]	-0.556755536	-0.518832670	-0.694423591 -0.873625271
##	[85,]	-0.411705663	0.196146087	0.097474948 -0.020595033
##	[86,]	-0.686162775	-0.673530139	-0.739205434 -0.416700011
##	[87,]	1.638190336	0.052241464	-0.604232707 -0.160790939
##	[88,]	0.536095713	-0.569199287	-1.113892736 -1.260710292
##	[89,]	-0.231104350	-0.983303774	-0.866526362 -0.754819549
##	[90,]	-0.977684579	-1.076084386	-0.866526362 -0.913055370
##	[91,]	0.308566501	-0.922523006	-0.818733974 -0.860481905
##	[92,]	0.035531446	-0.372277172	-0.378567339 -0.014667633
##	[93,]	-1.478248846	-1.321668985	-0.945553145 -0.822855798
##	[94,]	-0.824102360	-0.685269726	-0.782356566 -0.765643498
##	[95,]	-0.799927382	-1.249716674	-1.057783720 -1.095181192
##	[96,]	0.792066077	-0.397839178	-1.001825232 -0.753788697
##	[97,]	-0.681896603	-0.175165709	-0.499992617 -0.464892354
##	[98,]	-0.143647809	-1.030072776	-0.986948126 -1.119096964
##	[99,]	-0.625014299	1.197798000	0.594591043 0.440711350
##	[100,]	0.322787076	-0.847919820	-0.773952131 -0.898365725
##	[101,]	-1.200236590	-1.208438769	-0.863390379 -0.941661520
##	[102,]	-1.062297005	-1.130806012	-0.863892136 -0.974391079
##	[103,]	-0.628569443	-0.518075277	-0.517930443 -0.388609287
##	[104,]	-1.621876662	-1.018522537	-0.704835056 -0.578286101
##	[105,]	-1.149042517	0.260524471	0.049431681 0.179390304
##	[106,]	-0.634968702	-0.935777379	-0.925482851 -0.722605416

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## [107,]	-1.870736738	-1.385668673	-1.067718516 -1.171232316
## [108,]	0.191957779	-0.532087043	-0.395877967 -0.074457063
## [109,]	-0.179199249	-0.366596727	0.051815029 -0.363095694
## [110,]	-1.203080705	-0.768393581	-0.752502004 -0.918209631
## [111,]	-1.194548360	-0.411850943	-0.603103753 -0.708688911
## [112,]	0.211866585	-0.168159826	-0.626059152 -0.664104551
## [113,]	-1.347419549	-1.072865467	-0.773701252 -1.073971407
## [114,]	-1.154019719	-1.211089644	-0.814970794 -0.804558170
## [115,]	-0.035571433	-0.444418832	-0.588678229 -0.202282742
## [116,]	-0.311450603	-0.797742550	-0.980550720 -0.766674350
## [117,]	0.642750032	-0.692086261	-1.051097803 -1.065286476
## [118,]	-0.794950180	-1.081764831	-0.958849714 -0.907901109
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## [121,]	-1.093582271	-0.356939969	-0.419084245 -0.430616516
## [122,]	-0.470721052	-0.346147122	-0.724779910 -0.498652765
## [123,]	0.792066077	0.179104750	-0.586922078 -0.448398717
## [124,]	-1.086471984	-0.494406753	-0.256013106 -0.607665390
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## [126,]	-0.797083266	-0.034858702	-0.253504319 -0.261814460
## [127,]	0.211155557	0.313541963	0.222036210 0.290980060
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## [129,]	-0.802060468	-0.867043987	-0.691538486 -0.802754179
## [130,]	-1.606945057	-1.291373275	-1.079296566 -1.146826889
## [131,]	-1.292670332	-0.161721988	0.284755879 -0.387063009
## [132,]	-0.905159642	-0.352016916	-0.477037219 -0.522620080
## [133,]	0.308566501	0.048454501	-0.472270524 -0.855843070
## [134,]	1.211573063	-0.449341885	-0.977916494 -0.928260441
## [135,]	1.147580472	0.139341631	-0.627188106 -0.488859668
## [136,]	-0.501295290	0.122300294	-0.478793369 -0.472623745
## [137,]	0.022021899	-0.386478286	-0.952326869 -0.764870359
## [138,]	-0.605105493	-0.878594226	-0.817855899 -0.641683515
## [139,]	0.984043850	-0.202999892	-0.538000737 -0.685237022
## [140,]	-0.600128292	-1.161101722	-1.113892736 -1.260710292
## [141,]	0.784955789	-0.868558772	-1.113892736 -1.260710292
## [142,]	2.071917898	2.197556431	0.376326595 0.553074245
## [143,]	-0.945688283	-1.131563405	-1.101678707 -1.184916880

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## [144,]	-0.198397026	-0.352206264	-0.215747078 -0.740903044
## [145,]	-0.678341459	-1.110167060	-0.849341173 -0.731367661
## [146,]	-1.279160785	2.252467405	2.653050573 0.748936173
## [147,]	-0.967019147	-1.173977399	-0.863390379 -0.874398411
## [148,]	1.168911336	-0.221745363	-0.577137810 -0.453552979
## [149,]	0.514764850	-0.530572257	-0.792140835 -0.871563567
## [150,]	0.014911611	-0.605932836	-0.815472552 -0.844503695
## [151,]	0.756514638	-0.845079597	-0.507895296 -0.469531189
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## [153,]	-1.185304985	-0.829553045	-0.645376810 -1.128555033
## [154,]	-0.814147957	-1.023256241	-0.820741004 -1.012919182
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## [156,]	-0.568131996	0.353305083	0.151790181 -0.258206477
## [157,]	-0.736645819	-0.850381346	-0.914695068 -1.108221473
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## [161,]	2.022145883	-0.128586055	0.153044574 0.444061620
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## [163,]	-0.887383923	-0.498761762	-0.007894096 -0.506899583
## [164,]	-0.553200392	-0.969670704	-0.764795059 -0.719512860
## [165,]	0.138630620	-0.984629211	-0.655662835 -0.522620080
## [166,]	0.101657123	-0.436466208	-0.277964990 -0.028584138
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## [168,]	-0.430903440	-0.525649204	-0.361382149 -0.555091926
## [169,]	-1.169662352	-0.967209178	-0.738201920 -0.727244252
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## [175,]	-0.329937352	-0.682618852	-0.690911289 -0.675186213
## [176,]	-0.034860404	-0.395566999	-0.257894696 0.015227083
## [177,]	-1.567838474	-1.175302836	-1.113892736 -1.260710292
## [178,]	-1.093582271	-1.052037166	-1.113892736 -1.260710292
## [179,]	-0.799927382	-1.140084073	-1.050332623 -1.114741613
## [180,]	-0.888805980	-0.878594226	-1.019687793 -1.041963444

## [181,]	-0.151469126	-0.720299141	-0.523700652 -0.299182854
## [182,]	-0.707493639	-0.707423464	-0.462611695 -0.541433133
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## [184,]	-1.075806552	-1.034427785	-1.113892736 -1.260710292
## [185,]	-0.948532398	-0.768772277	-0.793269789 -0.737295061
## [186,]	-0.287986653	-0.617104379	-0.562963165 -0.738325913
## [187,]	0.969823275	-0.269839803	-0.639606600 -0.539629142
## [188,]	-2.175768089	-0.987280086	-0.803430375 -0.906612543
## [189,]	-1.508112056	-1.271681064	-1.075131980 -1.090928926
## [190,]	0.172760002	-0.302597039	-0.700444679 -0.644776071
## [191,]	-1.065141120	0.234015725	0.021333270 -0.342736362
## [192,]	0.621419168	0.281352772	-0.127939542 -0.113629449
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## [195,]	-1.506689998	-1.080818091	-0.954459338 -0.972844801
## [196,]	-0.049792009	-0.424158576	-0.508773371 -0.679051909
## [197,]	-0.541112902	-0.502548725	-0.535868268 -0.351498606
## [198,]	-0.086765506	0.885373490	0.822890637 -0.011832789
## [199,]	0.093835806	-0.489483700	-0.696430620 -0.743222462
## [200,]	-1.215879223	-1.333219225	-0.981805113 -0.975164218
## [201,]	-0.402462288	-0.660654462	-0.930500424 -0.772086325
## [202,]	1.218683351	-0.538714229	-0.720514973 -0.579059240
## [203,]	-0.274477106	-1.198971360	-1.113892736 -1.260710292
## [204,]	-0.355534388	-0.483045862	-0.888478246 -0.722089990
## [205,]	-0.029883203	-0.889576421	-0.796405772 -0.823113511
## [206,]	-1.352396751	-1.367491247	-0.973024360 -1.130539424
## [207,]	-1.033855853	-0.796038416	-0.374804158 -0.447110152
## [208,]	-1.564283330	-1.473904928	-1.098915279 -1.120282444
## [209,]	0.728073486	0.699812266	2.812358532 -0.133215642
## [210,]	0.564536865	0.483955332	0.380089775 0.339945542
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## [212,]	-0.031305261	0.533185861	0.827908211 -0.525197210
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## [216,]	0.472103122	-0.230266032	-0.431377300 -0.159244661
## [217,]	-1.187438072	-0.918925390	-0.852100838 -0.577255249

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## [218,]	-1.075806552	-0.872913780	-0.336796039 -0.656888585
## [219,]	-0.623592242	-0.730713292	-0.470012616 -0.771313185
## [220,]	0.571647153	-0.503874163	-0.841438494 -0.873109845
## [221,]	0.891610108	-0.606311532	-0.893621259 -0.757654393
## [222,]	-0.543957017	-0.669175131	-0.779095144 -0.901715995
## [223,]	-0.281587394	-0.914381034	-0.612637143 -0.930322145
## [224,]	-1.377282758	-1.332272484	-1.113892736 -1.260710292
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## [226,]	0.578757441	-0.639447465	-0.801548785 -0.502776174
## [227,]	0.247418025	0.145022076	-0.268807918 -0.592202607
## [228,]	-1.174639553	-1.099752909	-0.920590716 -0.991915567
## [229,]	-0.738778906	-0.845458293	-0.942417161 -1.031165267
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## [231,]	-1.361640125	-0.318691635	-0.362761982 -0.698895815
## [232,]	-0.940711082	-1.180036541	-1.016601986 -1.040752193
## [233,]	-0.390374799	-0.491566530	-0.748111627 -0.867182445
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## [235,]	-1.609789172	-1.210142903	-1.023915099 -0.964597983
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## [241,]	0.365448804	-0.688677994	-0.800921588 -0.777498299
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## [244,]	0.742294062	-0.711210428	-0.825758577 -0.801981040
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## [246,]	-1.555039956	-1.301976774	-1.113892736 -1.260710292
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## [271,]	0.280125349	-0.554808825	-1.050859469 -0.973102514
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## [290,]	-0.354112331	-1.166024775	-1.113892736 -1.260710292
## [291,]	-2.406852445	-1.608720838	-1.093885161 -1.212981833

## [292,]	-1.172506467	-0.635281805	-0.669084845 -0.726213399
## [293,]	-0.582352572	-0.703636501	-0.981554235 -1.004620821
## [294,]	0.642750032	0.516144524	-0.142866823 -0.539371429
## [295,]	-0.799927382	-0.981410292	-1.095566049 -1.176670062
## [296,]	0.692522047	0.127980740	-0.270187751 -0.238877997
## [297,]	-0.837611907	-0.859470059	-0.670590117 -0.502003035
## [298,]	-0.630702530	-0.725790239	-0.723525517 -0.522620080
## [299,]	-0.863919973	-0.962286125	-0.869662345 -0.761004663
## [300,]	-0.464321793	-1.262592351	-0.792517153 -0.507415009
## [301,]	-0.628569443	-0.839588499	-0.816977824 -0.648126341
## [302,]	-1.920508753	0.056028428	-0.117528077 -0.493240790
## [303,]	-0.457922534	-0.115710378	-0.368783070 -0.018791042
## [304,]	0.976933562	0.105258957	-0.004758112 0.228355786
## [305,]	0.044774820	0.474487923	0.525599407 -0.303048550
## [306,]	-1.475404731	-1.288343704	-1.009702822 -0.961247713
## [307,]	-0.490629858	-0.790736667	-0.744097568 -0.870532715
## [308,]	-1.636097238	-0.976865935	-0.888101928 -0.937022685
## [309,]	0.036242474	-0.129154099	-0.453705502 -0.542206272
## [310,]	1.986594443	-0.278549819	-0.737574723 -1.022093767
## [311,]	1.808837246	1.169395772	-0.508647932 0.105942081
## [312,]	0.294345925	-0.139568250	-0.341939052 -0.480097424
## [313,]	-0.400329202	1.167502290	1.746124162 0.270363015
## [314,]	1.503094866	0.832355998	0.165588508 0.173205190
## [315,]	-1.319689426	-1.298947203	-1.051587017 -1.094897707
## [316,]	-2.280289321	-1.469171223	-1.022949216 -1.099639628
## [317,]	-0.827657504	-1.025907116	-0.685391958 -0.605861399
## [318,]	0.792066077	0.429044358	-0.540885842 -0.459222666
## [319,]	0.007090294	-0.326265563	-0.626184591 -0.600191712
## [320,]	0.273015061	0.832355998	-0.021943302 0.054141755
## [321,]	0.127965188	-0.057580484	-0.319234532 -0.689102718
## [322,]	0.233908478	0.027626200	-0.109750838 -0.275988678
## [323,]	-3.109348889	-1.149740831	-1.113892736 -1.260710292
## [324,]	1.467543427	-0.542690541	-1.113892736 -1.260710292
## [325,]	-0.150047068	-0.798121246	-0.624679319 -0.844503695
## [326,]	-1.232232885	-0.550075120	-0.431753618 -0.736006496
## [327,]	-0.656299566	-1.027421902	-0.812963765 -0.700699806
## [328,]	-0.942133139	-0.947895663	-0.928367955 -1.112035626

```
## [329,]
             -0.733090675
                              -0.061367448
                                             -0.289254530 -0.283720070
## [330,]
             -0.688295862
                              0.294607145
                                             0.046672016 -0.909189674
## [331,]
             -1.237210087
                              -1.119445121
                                             -0.938026784 -0.787806821
## [332,]
             -0.423793152
                              -0.409957462
                                             -0.381954201 -0.467469484
## [333,]
             -0.079655218
                              -0.939374994
                                             -0.733058907 -0.673639935
## [334,]
             -0.584485658
                            -0.981031596
                                             -0.915322264 -0.964855696
## [335,]
             -0.041259664
                             -0.048113075
                                             -0.651272459 -0.650188046
## [336,]
             -0.464321793
                              -0.550832513
                                             -0.587549275 -0.397371531
## [337,]
             2.896711293
                              0.343837673
                                             -0.695928863 -0.636786967
## [338,]
             -0.883828779
                              -1.177385666
                                             -1.090561019 -1.185354992
## [339,]
                              -0.471684971
                                             -0.341813613 -0.392217270
             0.294345925
## [340,]
             -0.123739003
                              0.377920347
                                             0.048051849 -0.665908543
## [341,]
                              -0.469980837
                                             -0.776711796 -0.801723327
            0.028421158
## [342,]
            0.208311441
                             0.156382968
                                             -0.554182411 -0.151513269
## [343,]
             0.479213410
                             -0.254123903
                                             -0.286996622 -0.552257082
## [344,]
             -1.482515019
                             -0.401058097
                                             -0.345451353 -0.779560003
## [345,]
             -1.679469994
                             -0.827470215
                                             -0.548788520 -0.881614376
## [346,]
             0.777845502
                              -0.136538679
                                             -0.451322154 -0.116464292
## [347,]
             -0.600839321
                              -0.990120309
                                             -0.766174892 -0.727759678
## [348,]
             -0.206929371
                              -0.841292633
                                             -0.782983763 -0.727501965
## [349,]
             0.479213410
                            1.500755100
                                             0.704977660 0.362882005
## [350,]
                              -0.888250984
                                             -0.817479581 -0.595037450
             0.301456213
## [351,]
             -0.324960150
                             -0.292372237
                                             -0.603480071 -0.678278770
## [352,]
                             -0.736393737
             -0.684740718
                                             -0.863766697 -0.824659789
## [353,]
             -1.877847026
                              -0.986712041
                                             -0.677865598 -0.813062702
## [354,]
            1.211573063
                             -0.302975736
                                             -0.637223253 -0.384485878
## [355,]
                            -0.840724589
                                             -0.504382994 -0.521073801
             -1.542952466
## [356,]
            0.174893088
                            -0.241437575
                                            -0.664694468 -0.735748783
                              -0.225721675
## [357,]
             0.962712987
```

```
matnosurv <- matstand[cancer$diagnosis == "M",]
vecmediansurv <- apply(matsurv, 2, median)
# in the above 2 represents column. Hence, we are asking for column median
vecmediansurv</pre>
```

```
radius mean
##
                        texture_mean
                                       perimeter_mean
                                                              area_mean
##
         -0.5468970
                          -0.4416723
                                            -0.5674737
                                                             -0.5583439
    smoothness mean compactness mean
                                       concavity mean
                                                            points mean
         -0.3981961
                          -0.5500751
##
                                            -0.6486382
                                                             -0.6566309
vecmediannosurv <- apply(matnosurv, 2, median)</pre>
matabsdevsurv <- abs(matsurv - matrix(rep(vecmediansurv,nrow(matsurv)),nrow=nrow(matsurv), byrow=TRUE))</pre>
matabsdevnosurv <- abs(matnosurv - matrix(rep(vecmediannosurv,nrow(matnosurv)),nrow=nrow(matnosurv), byrow=TRUE))</pre>
matabsdevnosurv
##
          radius mean texture mean perimeter mean
                                                    area mean smoothness mean
     [1,] 0.997432264 0.532429890
                                      0.931726312 0.949663490
                                                                    2.14019666
     [2,] 0.926491136 0.051150470
##
                                      0.971234142 1.102541694
                                                                    0.44794814
##
     [3,] 0.642726623 0.823057559
                                      0.555578852 0.735974997
                                                                    0.07110288
     [4,] 0.784608879 0.558005125
                                      0.843656776 0.895104725
                                                                    0.41239670
##
##
     [5,] 1.000269909 1.318287107
                                      0.978230320 0.988593441
                                                                    0.10665432
     [6,] 0.574623139 0.885833135
                                      0.485617071 0.567183820
                                                                    0.42661727
    [7,] 1.292547358 0.234827157
##
                                      1.336681565 1.209670100
                                                                    0.82834854
    [8,] 0.078035241 0.434778993
##
                                      0.197539148 0.137817712
                                                                    0.66196780
     [9.1 0.458279689 0.034875320
                                      0.386847497 0.562637256
                                                                    0.86105586
    [10,] 0.154651660 0.618455680
                                      0.201654546 0.129861225
                                                                    0.96344401
    [11,] 0.307884497 0.625430744
                                      0.222231541 0.360599332
                                                                    0.31285267
    [12,] 0.847037072 1.302011958
                                      0.769579596 1.011610420
                                                                    0.15642633
    [13,] 0.642726623 0.769582068
                                      0.679040820 0.801331849
                                                                    0.69680821
    [14,] 1.675629451 0.251102306
                                                                    2.86544602
                                      1.507059080 1.551230697
    [15,] 0.214242208 0.088350811
                                                                    2.02572102
                                      0.131692765 0.261427412
    [16,] 2.385040734 0.930008541
                                                                    0.90300656
                                      2.469239344 3.063247283
    [17,] 0.983244039 1.053234673
                                      0.956418706 1.003369773
                                                                    0.02844115
    [18,] 1.692655322 1.211336125
                                      1.839583311 2.139726534
                                                                    0.84612426
    [19,] 1.965069255 0.292952690
                                      2.140007431 2.355688309
                                                                    3.02187235
    [20,] 0.588811365 0.762607004
                                      0.535001858 0.605261291
                                                                    0.10665432
    [21,] 0.495169076 0.778882153
                                      0.580271246 0.488755596
                                                                    0.80986179
```

0.078192579 0.149468281

0.19197777

[22,] 0.041145854 0.748656876

##	[23,] 0.026957629	0.953258755	0.012346197 0.045465637	0.11376461
##	[24,] 1.102425134	0.027900256	1.153134774 1.048551250	1.46329725
##	[25,] 0.563272559	1.674015374	0.481501672 0.646748684	0.36262468
##	[26,] 1.091074554	0.148801367	1.061772918 1.059349339	0.04266173
##	[27,] 0.279508046	0.669606150	0.181077552 0.309734651	1.16039898
##	[28,] 0.188703401	0.186001708	0.148154361 0.169643657	0.09954403
##	[29,] 1.088236908	0.367353374	0.946541749 1.341236287	0.56313480
##	[30,] 0.486656140	0.483604441	0.584386645 0.492733839	1.69224852
##	[31,] 0.881088814	0.385953545	0.816083603 0.915280102	0.37684526
##	[32,] 0.367475045	1.383387705	0.345693508 0.394414400	0.51833999
##	[33,] 2.240320832	0.802132367	2.358123574 2.688155779	0.29152180
##	[34,] 0.750557138	0.309227840	0.800856627 0.703296570	0.25099316
##	[35,] 0.378825625	1.009059267	0.296308721 0.412032334	0.22752921
##	[36,] 1.020133425	0.267377456	0.847772175 1.005074735	0.77502138
##	[37,] 0.015607048	0.920708456	0.074077180 0.009093127	1.34313338
##	[38,] 0.815822976	0.288302648	0.811145125 0.822075546	0.24743802
##	[39,] 0.520707882	0.346428182	0.485617071 0.532232111	0.98121973
##	[40,] 0.702317170	0.023250214	0.637886831 0.846797486	0.59513110
##	[41,] 0.923653491	0.158101452	0.843656776 1.017293625	0.80346253
##	[42,] 1.244307391	0.978833990	1.098811508 1.744743814	0.59442007
##	[43,] 1.196067424	1.371762598	1.110746165 1.141755805	2.67346825
##	[44,] 0.773258299	0.425478908	0.832545199 0.759560296	1.09356228
##	[45,] 0.475305560	0.592880445	0.378616699 0.585370074	1.42419066
##	[46,] 0.866900588	0.253427327	0.840775997 0.858732216	0.11376461
##	[47,] 0.688128945	0.248777285	0.497963268 0.701875769	0.19411086
##	[48,] 1.201742714	0.216226986	1.144080896 1.554356460	0.62570533
##	[49,] 0.191541046	0.018600171	0.172846754 0.077859903	0.70391850
##	[50,] 0.075197596	0.106950982	0.098769574 0.038077471	0.68969793
##	[51,] 0.364637400	0.281327584	0.325116514 0.460339573	0.55460246
##	[52,] 0.188703401	2.576123659	0.353924306 0.196070559	1.15186664
##	[53,] 0.795959460	1.578689499	0.699617814 0.934887158	0.31285267
##	[54,] 0.872575878	0.160426473	0.731717926 0.813550739	0.19197777
##	[55,] 0.778933589	0.016275149	0.690975476 0.816108181	0.22752921
##	[56,] 0.438416173	0.830032623	0.436232284 0.429081948	0.36262468
##	[57,] 1.808998772	0.025575235	1.740813738 1.593854732	1.45760902
##	[58,] 1.635902419	0.378978481	1.559736186 2.131201727	0.62428328
##	[59,] 2.807849859	0.095325875	2.794355858 3.745231836	0.51194073

##	[60,] 0.009931758	0.155776431	0.008230798 0.044897316	0.86816615
##	[61,] 1.179041553	0.651005979	1.161365571 1.129252755	0.96699915
##	[62,] 0.949192297	0.427803929	0.949834068 0.944832766	0.27019094
##	[63,] 1.025808716	0.146476345	0.987695738 1.006211376	1.18741808
##	[64,] 1.105262779	0.425478908	1.167127130 1.041731404	0.83332574
##	[65,] 0.534896108	0.671931171	0.465040076 0.625152507	0.22041892
##	[66,] 0.375987980	0.897458242	0.390962896 0.409190732	0.54749217
##	[67,] 0.356124464	0.420828865	0.415655290 0.324795143	0.74800229
##	[68,] 0.625700752	1.111360207	0.634594511 0.612081136	0.95562269
##	[69,] 0.078035241	0.553355082	0.032923191 0.105139285	0.84612426
##	[70,] 0.319235077	0.104625961	0.246923934 0.406349129	0.56171274
##	[71,] 0.804472395	0.418503843	0.695502415 0.971827988	1.56426334
##	[72,] 0.344773884	0.792832281	0.374501301 0.338150674	0.35480337
##	[73,] 0.790284170	1.413612982	0.718960189 0.776325749	0.83190368
##	[74,] 0.461117334	0.267377456	0.535001858 0.470001021	0.44297094
##	[75,] 0.503682011	1.122985313	0.613194437 0.568320461	1.37228556
##	[76,] 0.637051332	0.995109139	0.666694623 0.612081136	0.01422058
##	[77,] 0.662590139	0.869557986	0.767933436 0.662661657	0.59228698
##	[78,] 0.529220817	0.578930317	0.428001486 0.570309582	1.14475635
##	[79,] 1.579149516	0.771907089	1.613236371 1.423358594	0.17917925
##	[80,] 1.068373393	1.188085911	1.172888688 1.076967273	0.84612426
##	[81,] 0.742044202	0.030225278	0.767521896 0.781724794	0.81768311
##	[82,] 0.035470564	0.711456534	0.000000000 0.007388166	0.34840411
##	[83,] 1.383352002	1.339212299	1.301700674 1.292644888	1.82023370
##	[84,] 1.686980032	0.134851238	1.559736186 2.142568137	1.26634227
##	[85,] 0.625700752	0.595205466	0.629656033 0.809856656	0.91011685
##	[86,] 0.810147685	0.446404100	0.806618186 0.903629532	0.78924196
##	[87,] 0.061009370	0.497554569	0.037038590 0.055695405	0.89020804
##	[88,] 0.299371562	0.174376601	0.300424120 0.336161552	1.04521232
##	[89,] 0.699479525	0.406878737	0.567925049 0.740521560	0.15642633
##	[90,] 0.954867587	1.025334417	0.937076331 0.936592119	0.52616130
##	[91,] 0.007094113	0.372003416	0.131692765 0.003125763	1.10778285
##	[92,] 0.682453654	0.381303502	0.679040820 0.778599031	0.28441152
##	[93,] 0.472467915	0.404553715	0.164615956 0.450393965	0.61859505
##	[94,] 0.166002240	0.102300940	0.419770688 0.176179343	1.47893988
##	[95,] 0.529220817	0.460354228	0.514424863 0.520297382	0.49772015
##	[96,] 0.086548177	0.585905381	0.057615585 0.092920395	1.24430038

##	[97,]	1.227281520	0.083700769	1.098811508	1.171308469	1.78468226
##	[98,]	0.588811365	0.474304356	0.613194437	0.633677314	0.03555144
##	[99,]	0.523545527	0.776557132	0.749002601	0.542746040	0.34129382
##	[100,]	0.526383172	0.239477199	0.547348055	0.613786097	1.20661586
##	[101,]	3.060400276	0.695181384	3.057741388	4.452790809	0.85323455
##	[102,]	0.205729272	1.539164136	0.242808535	0.209994410	1.25496581
##	[103,]	0.205729272	1.234586338	0.246923934	0.210278570	0.30574238
##		0.038308209	0.141826303	0.107000372	0.010513929	0.35124822
##		0.889601749	0.546380018	0.877814587		0.53824879
##		0.727855977	0.279002562	0.670810022		0.10665432
##		1.025808716	0.488254484	1.016503530		0.10665432
##		1.008782845	0.192976772	0.969999522		1.26563124
##		1.329436745	0.102300940	1.358081639		0.29152180
##		2.072899770	0.032550299	2.111199639		0.05688230
##		0.915140555	0.139501281	0.971234142		0.17064691
##		0.705154816	0.160426473	0.650233027		0.27659020
##		0.305046852	0.453379164	0.181077552		0.02844115
##		0.529220817	1.283411787	0.497963268		1.08502993
##		1.113775715	0.218552007	1.051895961		0.59726418
##		0.446929108	0.281327584	0.477386273		0.02133086
##		0.903789975	1.476388559	0.831310579		0.75440155
		0.597324300	2.129719559	0.444463082		0.18486749
		0.892439394	0.183676687	0.843656776		0.75653463
		0.007094113	1.018359353	0.049384787		0.09954403
		1.147827456	0.274352520	1.106219226		0.13509547
		0.841361782	1.655415203	0.860118371		0.13509547
		1.669954161	1.281086765	1.617351770		0.50554147
		0.166002240	0.030225278	0.168731355		0.43372756
		0.832848847	0.365028352	0.749002601		0.81199488
		0.322072723	0.683556278	0.283962525		0.24601596
		0.438416173	0.337128096	0.349808907		0.94566829
		1.755083515	0.653331000	1.683198153		0.33418353
		0.673940719	0.904433306	0.714021710		1.03099174
		0.410039722	0.006975064	0.358039705		0.78497578
		0.480980850	0.727731683	0.321001115		0.84683529 1.01677117
		0.302209207 0.330585658	0.097650897 0.018600171	0.275731727 0.329231913		0.09954403
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## [162,]	0.012307632	0.028223851 0.143030750		
## [163,]	1.391898528	0.892500887 0.717730880	500887 0.7177308	80
## [164,]	0.434554091	0.233944365 0.048192343		
## [165,]	0.048283788	0.121048961 0.047161491		
## [166,]	0.404258381	0.635350245 0.566195599		
## [167,]	0.055857715	0.537507562 1.047861314		
## [168,]	0.010414150	0.429629731 0.407702066		
## [169,]	0.341773479	0.183768630 0.004638835		
## [170,]	1.258218707	2.661195548 2.129225326		
## [171,]	0.124023063	0.100978667 0.029894715		
## [172,]	1.803541487	0.897518461 1.387011705		
## [173,]	0.173253592	0.531235595 0.611810811		
## [174,]	0.366388743	0.462243959 0.513106708		
## [175,]	0.391004008	0.481059860 0.174729457		
## [176,]	0.281182059	0.073382013 0.753037570		
## [177,]	0.676919771	0.196312563 0.481665715		
## [178,]	0.345560442	0.720899873 0.718761733		
## [179,]	1.066977037	1.010413865 0.982402196	13865 0.9824021	96

```
## [180,]
              1.970167893
                              1.756777923 0.977247935
## [181,]
               2.735134571
                              3.450208981 2.474560830
## [182,]
             1.572536699
                              0.220146038 0.582689235
## [183,]
               0.065325125
                              0.430884125 0.223179513
## [184,]
               2.738921535
                              2.509413949 1.693690250
## [185,]
               0.438341054
                              0.650402966 0.603563993
## [186,]
               0.523547739
                              0.862520886 0.870039301
## [187,]
             1.400229848
                              0.339313408 0.724689133
## [188,]
               0.597393532
                              0.297918427 0.059016291
## [189,]
             1.159378953
                              1.440796232 1.629004271
             1.243260200
                              1.484700000 1.367167799
## [190,]
## [191,]
              1.322597091
                              0.261541019 0.425741980
## [192,]
             1.727802212
                              2.082920201 1.575142241
## [193,]
               0.468636764
                              0.010662344 0.037883820
## [194,]
             1.175473549
                              1.183645590 1.000957537
## [195,]
               0.364495261
                              0.370673243 0.888079215
## [196,]
               0.328519106
                              0.373182029 0.037368394
## [197,]
               0.900350632
                              0.227672398 0.455378982
## [198,]
               1.016989116
                              0.808456531 0.415175744
## [199,]
               0.521654257
                              0.577648150 1.072601768
## [200,]
               0.305797323
                              0.324260688 0.508210160
## [201,]
               1.634074860
                              1.310715639 1.517672228
## [202,]
             1.233224746
                              0.983695286 0.781386007
## [203,]
               0.440234536
                              0.350602949 0.061335709
## [204,]
               0.502719438
                              1.293906768 0.737574786
## [205,]
             1.123024101
                              1.026720978 0.834474898
             1.044255255
## [206,]
                              1.318994635 1.652456160
## [207,]
             4.034063138
                              2.810468360 1.910169223
## [208,]
             2.030759313
                              0.952711769 0.021905610
            1.445673413
## [209,]
                              1.626321012 1.801929736
## [210,]
            0.426980163
                              0.243979512 0.780870581
## [211,]
               0.514080330
                              1.224287935 1.382630583
## [212,]
               0.362601779
                              0.524963628 1.010750633
```

```
matabsdev.all <- rbind(matabsdevsurv,matabsdevnosurv)
matabsdev.all <- data.frame(cancer$diagnosis, matabsdev.all)</pre>
```

```
t.test(matabsdev.all$radius_mean[cancer$diagnosis == "B"],matabsdev.all$radius_mean[cancer$diagnosis == "M"], alt
ernative="less",var.equal = TRUE)
```

```
t.test(matabsdev.all$texture_mean[cancer$diagnosis == "B"],matabsdev.all$texture_mean[cancer$diagnosis == "M"], a
lternative="less",var.equal = TRUE)
```

```
t.test(matabsdev.all$perimeter_mean[cancer$diagnosis == "B"], matabsdev.all$perimeter_mean[cancer$diagnosis == "M"], alternative="less", var.equal = TRUE)
```

```
##
## Two Sample t-test
##
## data: matabsdev.all$perimeter mean[cancer$diagnosis == "B"] and matabsdev.all$perimeter mean[cancer$diagnosis
== "M"1
## t = 0.2439, df = 567, p-value = 0.5963
## alternative hypothesis: true difference in means is less than 0
## 95 percent confidence interval:
          -Inf 0.07148672
##
## sample estimates:
## mean of x mean of y
## 0.5125724 0.5033541
t.test(matabsdev.all$area mean[cancer$diagnosis == "B"],matabsdev.all$area mean[cancer$diagnosis == "M"], alterna
tive="less", var.equal = TRUE)
## Two Sample t-test
## data: matabsdev.all$area mean[cancer$diagnosis == "B"] and matabsdev.all$area mean[cancer$diagnosis == "M"]
## t = 0.40112, df = 567, p-value = 0.6558
## alternative hypothesis: true difference in means is less than 0
## 95 percent confidence interval:
         -Inf 0.0909786
##
## sample estimates:
## mean of x mean of y
## 0.4981297 0.4803166
t.test(matabsdev.all$smoothness mean[cancer$diagnosis == "B"],matabsdev.all$smoothness mean[cancer$diagnosis ==
"M"], alternative="less", var.equal = TRUE)
   Two Sample t-test
```

```
## data: matabsdev.all$smoothness_mean[cancer$diagnosis == "B"] and matabsdev.all$smoothness_mean[cancer$diagnos
is == "M"]
## t = 1.6742, df = 567, p-value = 0.9527
## alternative hypothesis: true difference in means is less than 0
## 95 percent confidence interval:
## -Inf 0.167207
## sample estimates:
## mean of x mean of y
## 0.7680704 0.6837950
```

```
t.test(matabsdev.all$compactness_mean[cancer$diagnosis == "B"],matabsdev.all$compactness_mean[cancer$diagnosis ==
"M"], alternative="less",var.equal = TRUE)
```

```
##
## Two Sample t-test
##
## data: matabsdev.all$compactness_mean[cancer$diagnosis == "B"] and matabsdev.all$compactness_mean[cancer$diagn
osis == "M"]
## t = 1.8406, df = 567, p-value = 0.9669
## alternative hypothesis: true difference in means is less than 0
## 95 percent confidence interval:
## -Inf 0.1710355
## sample estimates:
## mean of x mean of y
## 0.6249227 0.5346711
```

```
t.test(matabsdev.all$concavity_mean[cancer$diagnosis == "B"],matabsdev.all$concavity_mean[cancer$diagnosis == "M"], alternative="less",var.equal = TRUE)
```

```
##
## Two Sample t-test
##
## data: matabsdev.all$concavity_mean[cancer$diagnosis == "B"] and matabsdev.all$concavity_mean[cancer$diagnosis
== "M"]
```

```
## t = 1.0995, df = 567, p-value = 0.864
## alternative hypothesis: true difference in means is less than 0
## 95 percent confidence interval:
## -Inf 0.1302286
## sample estimates:
## mean of x mean of y
## 0.4977532 0.4456302
```

```
t.test(matabsdev.all$points_mean[cancer$diagnosis == "B"],matabsdev.all$points_mean[cancer$diagnosis == "M"], alt
ernative="less",var.equal = TRUE)
```

matstand

```
radius mean texture mean perimeter mean
                                                area mean
[1,] -0.512845261 -1.604183e+00
                                -0.53990056 -0.542146756
[2.] -1.000920224 -7.896900e-02
                                -0.93374423 -0.876603348
[3,] -0.876063838 -5.718735e-01
                                -0.86625169 -0.800448406
[4,] -0.807960355 -1.371681e+00
                                -0.78065139 -0.767485819
[5,] 0.301558892 -1.413531e+00
                                0.23379444 0.161718134
[6,] -0.725668646 -5.804381e-02
                                -0.73126661 -0.696729922
[7,] -0.742694517 1.078892e+00
                                -0.71809733 -0.714347856
```

```
[8,] -0.090036136 1.037041e+00
                                      -0.01683336 -0.162224529
                                      -1.01070219 -0.905871851
    [9,] -1.032134320 8.172307e-05
   [10,] -0.870388548 -1.006653e+00
                                      -0.84279392 -0.798459284
   [11,] 1.833887264 4.534609e-01
                                      1.88612710 1.889980655
   [12,] -0.532708777 -3.137962e-01
                                      -0.56376987 -0.552944845
   [13,] -0.280158360 3.372098e-01
                                      -0.24647261 -0.335278109
   [14,] -0.305697166 4.731766e-03
                                      -0.38516156 -0.362841651
   [15,] 1.550122751 1.327669e+00
                                      1.47047181 1.523413958
   [16,] 0.131300184 7.882640e-01
                                       0.18194041 0.006282488
   [17.] 0.449116439 -1.246130e+00
                                     0.41281429 0.303514089
   [18.] -0.413527681 -4.625975e-01
                                      -0.44113098 -0.468833417
   [19,] 1.692005007 1.062616e+00
                                      1.75854973 1.682543687
   [20,] -0.549734648 -1.394931e+00
                                      -0.53043514 -0.565732056
   [21,] -0.685941614 -4.881728e-01
                                      -0.71151269 -0.666608937
                                      -0.64196245 -0.706107209
   [22,] -0.691616904 1.197468e+00
   [23,] -0.904440289 -1.626698e-01
                                      -0.88806330 -0.809541533
   [24,] 0.276020086 -6.741745e-01
                                     0.31322164 0.055726368
   [25,] -1.026459030 2.093336e-01
                                      -0.96008279 -0.911270896
   [26,] -0.092873781 -8.136758e-01
                                      -0.06333736 -0.201154480
   [27,] -0.192191361 -2.300954e-01
                                      -0.22095714 -0.283560947
   [28,] 0.332772989 1.390444e+00
                                      0.42927589 0.220255141
   [29,] -1.282982150 -5.695485e-01
                                      -1.24816071 -1.063864939
   [30,] -0.206379587 -5.439733e-01
                                      -0.26704961 -0.291233273
   [31,] -0.305697166 -1.267055e+00
                                      -0.38104616 -0.353180203
   [32.] -0.385151230 7.394385e-01
                                      -0.42178861 -0.422231139
   [33.] 0.985431369 9.393903e-01
                                      1.11243210 0.925256673
   [34.] -0.527033487 -3.184462e-01
                                      -0.55800831 -0.536463552
                                      0.09551703 0.011113212
   [35,] 0.128462539 -1.308905e+00
   [36,] -0.132600813 -9.624771e-01
                                      -0.15222998 -0.211100088
   [37,] 1.365675817 4.697360e-01
                                      1.30174045 1.350076217
   [38,] -0.632026357 -1.078728e+00
                                      -0.57035451 -0.631088909
   [39,] 0.752744468 -1.138443e-01
                                      0.71323841 0.657577736
   [40,] 0.599511631 -1.208194e-01
                                      0.69266142 0.426839629
   [41,] 1.754433200 1.806623e+00
                                      1.68447255 1.799049381
   [42,] 1.550122751 -2.649707e-01
                                      1.59393378 1.588770811
## [43,] -0.768233323 2.535091e-01
                                      -0.59216612 -0.763791736
   [44,] -0.322723037 -1.176379e+00
                                      -0.32466519 -0.399498321
```

```
[45,] -0.064497330 -6.206990e-01
                                  -0.12342219 -0.157677965
                                  1.04658572 1.048866373
[46,] 1.121638336 5.929622e-01
[47,] -0.850525032 -6.206990e-01
                                  -0.88477099 -0.777999748
[48,] 3.292436862 -4.253972e-01
                                  3.38413230 3.850686244
[49,] -0.175165490 -9.291913e-02
                                  -0.15922616 -0.275036140
[50,] -0.473118229 1.395830e-01
                                  -0.47487725 -0.521687220
[51,] -0.075847910 -5.486233e-01
                                  -0.04152575 -0.215930812
[52,] 0.247643635 -8.787763e-01
                                  0.22556364 0.084142391
[53,] -0.660402808 -4.718976e-01
                                  -0.68764338 -0.633646351
[54.] 0.026307314 1.990300e+00
                                  0.02390909 -0.088058708
[55,] 2.600051450 1.715947e+00
                                  2.75447627 2.927165495
[56,] -0.223405457 -7.974006e-01
                                  -0.22548408 -0.383301188
[57,] -0.677428679 -1.069428e+00
                                  -0.64443169 -0.650411804
[58,] -1.148477771 -9.717772e-01
                                  -1.16091425 -0.958725654
                                  3.05490039 3.143127271
[59,] 2.872465383 2.116587e-01
[60,] 1.496207493 -2.579956e-01
                                  1.44989481 1.392700252
[61,] 1.402565204 1.283494e+00
                                 1.49516420 1.276194557
[62,] 0.948541983 1.253268e+00
                                  0.99308554 0.936907242
[63,] 0.934353757 1.457870e+00
                                   0.92723915  0.832904598
[64,] -0.195029006 5.325116e-01
                                  -0.23824182 -0.261112289
[65,] 0.344123569 -1.169404e+00
                                  0.43339128 0.140690277
                                  -0.49874657 -0.541010116
[66,] -0.507169971 6.813130e-01
[67,] -0.243268973 -5.276981e-01
                                  -0.30532282 -0.308282887
[68,] 0.136975474 -8.369260e-01
                                  0.02925911 0.028446986
[69.] -0.078685556 -9.555021e-01
                                  -0.12259911 -0.191777192
[70.] -0.697292195 1.698083e-01
                                  -0.68970108 -0.678259507
[71.] -0.183678426 3.558100e-01
                                  -0.14687996 -0.271910377
[72,] -1.156990706 -4.091220e-01
                                  -1.13416416 -0.977764390
[73,] -1.443025336 -9.059411e-02
                                  -1.31277247 -1.166162622
[74,] 1.056372498 -1.408881e+00
                                  0.93135455 0.958219260
[75.] 0.769770339 3.960709e-02
                                  0.67619982 0.640243962
[76,] -0.501494680 5.836621e-01
                                  -0.50162735 -0.536463552
                                  1.09597051 1.097173612
[77,] 1.186904174 -1.649948e-01
[78,] -0.799447419 -5.804381e-02
                                  -0.83003618 -0.741058918
[79,] -0.387988875 -1.376331e+00
                                  -0.39833083 -0.428482664
[80,] 1.096099529 3.186096e-01
                                 1.06304732 0.957082619
[81,] 0.239130699 -5.439733e-01
                                   0.17494423 0.088120634
```

```
[82,] -0.518520551 -7.881005e-01
                                       -0.54072364 -0.543283397
    [83,] -0.234756038 5.301866e-01
                                      -0.27692657 -0.309135368
    [84,] 0.145488410 -9.415519e-01
                                      0.15642494 -0.008493844
    [85,] -0.810798000 -1.471657e+00
                                       -0.77406675 -0.763223416
    [86,] -0.351099488 -1.434456e+00
                                       -0.41479243 -0.394951757
    [87,] -0.507169971 -1.632083e+00
                                       -0.53619670 -0.529643706
    [88,] -0.212054877 2.657581e+00
                                       -0.23165718 -0.277593582
    [89,] 1.995633037 8.719647e-01
                                      1.86143471 2.128675248
    [90,] -0.118412587 -1.417446e-01
                                       -0.13329914 -0.238379470
    [91.] -0.373800649 -1.448407e+00
                                       -0.43948482 -0.415127134
    [92.] -0.470280584 -4.602725e-01
                                       -0.47405417 -0.496681120
    [93,] 0.420739988 2.100692e-02
                                      0.33050631 0.294705122
    [94,] -0.319885392 1.357894e+00
                                       -0.38516156 -0.382732867
    [95,] 0.026307314 8.905649e-01
                                      0.09880935 -0.127841141
    [96,] 0.539921083 -8.787763e-01
                                      0.56919945 0.393024562
    [97,] -0.331235972 -2.324204e-01
                                       -0.32054980 -0.368524856
    [98,] -0.646214582 -4.253972e-01
                                       -0.67612026 -0.631373069
## [99,] -1.120101319 -4.091220e-01
                                       -1.10494483 -0.971228704
## [100,] 3.147716961 1.306744e+00
                                       3.27301653 3.475594740
## [101,] -0.969706127 2.558341e-01
                                       -0.92469035 -0.880865751
## [102,] -1.250632996 -2.486956e-01
                                       -1.28561084 -1.042268762
## [103,] -0.805122710 -1.453057e+00
                                       -0.81233996 -0.758392692
## [104,] 0.156838990 1.953835e-01
                                      0.11403633 0.084142391
## [105,] -0.263132489 -4.323722e-01
                                       -0.32260749 -0.321922578
## [106.] -0.748369807 -1.092678e+00
                                       -0.73990894 -0.710369613
                                       -0.41355781 -0.480483986
## [107,] -0.444741778 -5.106875e-02
## [108,] -0.541221712 1.744583e-01
                                       -0.51438508 -0.573404382
                                       -0.94979429 -0.833410993
## [109,] -0.938492031 1.143992e+00
## [110,] -0.842012096 4.929862e-01
                                       -0.86501707 -0.780273029
## [111,] -0.705805130 -2.231203e-01
                                       -0.69134724 -0.688773435
## [112,] -1.676563530 3.279097e-01
                                       -1.59261960 -1.281531676
## [113,] 1.286221753 -5.044479e-01
                                      1.21120168 1.199471295
## [114,] -0.112737297 7.719888e-01
                                       0.06712078 -0.217635773
## [115,] -0.671753388 5.371617e-01
                                       -0.70986653 -0.645012760
## [116,] 0.891789080 1.425320e+00
                                       0.84081578 0.778345834
## [117,] 0.091573152 2.163087e-01
                                        0.10374783 -0.034636585
## [118,] 0.386688246 1.581832e-01
                                        0.42927589 0.255206850
```

```
## [119,] 1.609713298 5.278616e-01
                                     1.55277979 1.634236448
## [120,] -0.305697166 -1.626698e-01
                                      -0.28309967 -0.406034006
## [121,] -0.078685556 -4.835227e-01
                                      -0.14523380 -0.188083109
## [122,] 1.831049619 6.627128e-01
                                      1.75854973 1.804732586
## [123,] -0.717155711 1.209093e+00
                                      -0.73003199 -0.675417904
## [124,] 2.151703519 -4.742226e-01
                                      2.01370446 2.532182775
## [125,] -0.754045097 -7.578752e-01
                                      -0.77982831 -0.716621138
## [126,] -0.756882742 -2.626457e-01
                                      -0.75637054 -0.715484497
## [127,] -0.288671295 -8.671512e-01
                                      -0.19585321 -0.354316844
## [128.] 0.134137829 9.300903e-01
                                     0.08234776 0.027878666
## [129,] 1.382701688 -8.826909e-02
                                     1.29350966 1.372809036
## [130,] 0.040495540 7.580387e-01
                                     0.07411696 -0.071293255
## [131,] 0.219267183 7.533886e-01
                                     0.41692969 0.085563192
## [132,] -0.132600813 -3.711862e-02
                                      -0.10325673 -0.226160580
## [133,] -0.260294844 2.039125e+00
                                      -0.29174200 -0.331015705
                                      2.05897385 2.341795421
## [134,] 2.109138842 7.208383e-01
## [135,] -0.870388548 -5.044479e-01
                                      -0.85267087 -0.819487141
## [136,] 0.715855082 4.860112e-01
                                     0.74204620 0.709579058
## [137,] -1.530424806 -5.695485e-01
                                      -1.51031162 -1.195146966
## [138,] -0.586624034 -1.522807e+00
                                      -0.62262007 -0.586191592
## [139,] 0.832198532 3.976604e-01
                                      0.81612338 0.749361490
## [140,] -0.620675776 -2.440455e-01
                                      -0.66912408 -0.617449218
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## [394,] 1.428104010 1.699672e+00
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## [399,] 1.575661557 5.557618e-01
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## [400,] -1.231620773 1.512081e-01
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## [413,] -0.958355547 -1.004328e+00
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## [418,] 0.083060217 -6.392991e-01
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## [419,] 1.723219104 1.753148e+00
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## [567,] 0.327097698 7.254884e-01
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## [568,] 0.114274313 -1.234505e+00
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##
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##	[49,]	0.678301471	0.196146087	-0.037623219 0.126043700
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	## [211,]	-1.292670332	-0.161721988	0.284755879 -0.387063009
	## [212,]	1.232903927	0.608925136	0.508037900 0.832692918
	## [213,]	0.763624926	1.489394209	1.008540857 0.786562280
	## [214,]	-0.905159642	-0.352016916	-0.477037219 -0.522620080
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## [215,]	0.308566501	0.048454501	-0.472270524 -0.855843070
## [216,]	1.211573063	-0.449341885	-0.977916494 -0.928260441
## [217,]	1.147580472	0.139341631	-0.627188106 -0.488859668
## [218,]	-0.501295290	0.122300294	-0.478793369 -0.472623745
## [219,]	2.235454519	1.243241565	0.865540012 0.823930674
## [220,]	-0.851121454	0.192359123	0.546924094 1.239621845
## [221,]	0.022021899	-0.386478286	-0.952326869 -0.764870359
## [222,]	-0.605105493	-0.878594226	-0.817855899 -0.641683515
## [223,]	1.325337669	1.133419616	1.642009512 1.476202437
## [224,]	0.984043850	-0.202999892	-0.538000737 -0.685237022
## [225,]	-0.600128292	-1.161101722	-1.113892736 -1.260710292
## [226,]	0.784955789	-0.868558772	-1.113892736 -1.260710292
## [227,]	2.071917898	2.197556431	0.376326595 0.553074245
## [228,]	1.204462775	0.843716889	1.561728336 1.983897171
## [229,]	-0.474987225	0.292713663	0.185658802 0.669045123
## [230,]	-0.945688283	-1.131563405	-1.101678707 -1.184916880
## [231,]	-0.198397026	-0.352206264	-0.215747078 -0.740903044
## [232,]	-0.678341459	-1.110167060	-0.849341173 -0.731367661
## [233,]	-1.279160785	2.252467405	2.653050573 0.748936173
## [234,]	1.460433139	0.521824970	0.740100674 0.926758186
## [235,]	-0.967019147	-1.173977399	-0.863390379 -0.874398411
## [236,]	1.168911336	-0.221745363	-0.577137810 -0.453552979
## [237,]	0.571647153	1.773416490	1.014812824 1.027266281
## [238,]	0.514764850	-0.530572257	-0.792140835 -0.871563567
## [239,]	0.014911611	-0.605932836	-0.815472552 -0.844503695
## [240,]	0.756514638	-0.845079597	-0.507895296 -0.469531189
## [241,]	0.941382123	0.446085695	0.114032940 0.091252436
## [242,]	1.325337669	-0.422833138	-0.595577393 -0.764870359
## [243,]	-1.185304985	-0.829553045	-0.645376810 -1.128555033
## [244,]	-0.692562034	-0.784677525	-0.751247611 -0.529578332
## [245,]	0.699632335	1.525370364	1.917976055 1.249414941
## [246,]	-0.814147957	-1.023256241	-0.820741004 -1.012919182
## [247,]	-1.080072724	-1.234947515	-1.082909219 -1.127756123
## [248,]	-0.568131996	0.353305083	0.151790181 -0.258206477
## [249,]	-0.736645819	-0.850381346	-0.914695068 -1.108221473
## [250,]	-0.852543512	-0.754381815	-0.605236222 -0.759458384
## [251,]	0.175604117	0.607031654	-0.145375610 0.322163341

## [252,]	1.033815866	3.920624938	2.870060627 2.287998585
## [253,]	-0.903737585	0.133661185	0.149281394 -0.550195377
## [254,]	1.894160700	2.901931689 -0.128586055	2.886367741 1.826692202 0.153044574 0.444061620
## [255,]	2.022145883		
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## [257,]	-0.887383923	-0.498761762 -0.969670704	-0.007894096 -0.506899583 -0.764795059 -0.719512860
## [258,]	-0.553200392		
## [259,] ## [260,]	0.138630620 0.101657123	-0.984629211 -0.436466208	-0.655662835 -0.522620080 -0.277964990 -0.028584138
## [260,] ## [261,]	0.464992834	-0.128018010	-0.513916384 -0.403556645
## [261,] ## [262,]	-0.430903440	-0.525649204	-0.361382149 -0.555091926
## [262,] ## [263,]	0.912940971	0.340050710	0.725047954 0.823415248
## [264,]	-1.169662352	-0.967209178	-0.738201920 -0.727244252
## [265,]	1.659521200	0.856971262	1.917976055 1.839577855
## [266,]	2.199903080	1.682529360	1.218024551 1.149679986
## [267,]	-1.124867538	-0.857197881	-0.389606000 -0.984699602
## [268,]	0.104501238	0.923243128	-0.034361796 -0.520558375
## [269,]	-1.026745565	-0.991067050	-0.898889711 -0.935734120
## [270,]	0.450772259	0.974367138	1.456359292 1.029327985
## [271,]	-1.131977826	-0.291425496	-0.186896031 -0.208467856
## [272,]	0.073927000	2.678500827	1.476429586 1.620521752
## [273,]	-1.131266797	-0.960581991	-0.777589872 -0.422885124
## [274,]	-0.329937352	-0.682618852	-0.690911289 -0.675186213
## [275,]	-0.791395036	0.728214494	0.283501485 0.484522570
## [276,]	1.268455366	0.894840900	2.901420462 2.849813062
## [277,]	-0.034860404	-0.395566999	-0.257894696 0.015227083
## [278,]	-0.839744994	-0.038645666	0.046546577 0.105684368
## [279,]	-1.567838474	-1.175302836	-1.113892736 -1.260710292
## [280,]	-1.093582271	-1.052037166	-1.113892736 -1.260710292
## [281,]	0.720963198	2.087734482	0.998505710 1.522590788
## [282,]	-0.799927382	-1.140084073	-1.050332623 -1.114741613
## [283,]	-0.888805980	-0.878594226	-1.019687793 -1.041963444
## [284,]	-0.151469126	-0.720299141	-0.523700652 -0.299182854
## [285,]	0.063972597	-0.272490677	0.022713102 0.421382870
## [286,]	-0.707493639	-0.707423464	-0.462611695 -0.541433133
## [287,]	-0.123027974	0.497209705	0.284755879 0.404631521
## [288,]	0.521875137	0.504783633	0.656056318 1.169781605

## [289,]	0.308566501	1.065254268	2.288022101 2.115330833
## [290,]	0.799176365	0.550227198	-0.108245566 0.046925790
## [291,]	-1.075806552	-1.034427785	-1.113892736 -1.260710292
## [292,]	-0.948532398	-0.768772277	-0.793269789 -0.737295061
## [293,]	1.680852064	0.423363912	0.623442090 0.421125157
## [294,]	-0.287986653	-0.617104379	-0.562963165 -0.738325913
## [295,]	0.706742623	1.724185962	1.956862249 2.607562783
## [296,]	0.472103122	2.011995207	1.783755963 2.530248864
## [297,]	0.585867728	1.317087358	1.501517454 2.146256400
## [298,]	0.138630620	-0.031071738	0.741355068 1.187048380
## [299,]	0.969823275	-0.269839803	-0.639606600 -0.539629142
## [300,]	0.443661971	1.608683567	1.690930854 1.108703609
## [301,]	-0.669809113	0.268098398	0.382598562 1.230601888
## [302,]	-2.175768089	-0.987280086	-0.803430375 -0.906612543
## [303,]	-1.508112056	-1.271681064	-1.075131980 -1.090928926
## [304,]	1.012485002	0.805847251	0.698705693 0.845320859
## [305,]	0.436551683	0.304074554	0.324896467 0.404631521
## [306,]	-0.339180726	0.057921910	0.835434571 0.888616653
## [307,]	0.600088304	1.976019051	2.084810374 1.169266179
## [308,]	0.172760002	-0.302597039	-0.700444679 -0.644776071
## [309,]	-1.065141120	0.234015725	0.021333270 -0.342736362
## [310,]	0.621419168	0.281352772	-0.127939542 -0.113629449
## [311,]	-0.341313813	0.510464079	0.796548376 1.355077297
## [312,]	0.315676789	-0.004562992	0.474169279 0.891966923
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## [314,]	1.858609261	-0.610477192	-0.370162903 0.647397226
## [315,]	0.550316289	0.743362349	0.121308422 0.326286750
## [316,]	-1.506689998	-1.080818091	-0.954459338 -0.972844801
## [317,]	0.280125349	0.538866307	1.369806149 1.427236955
## [318,]	-0.090320650	1.209158891	1.332174348 1.927200297
## [319,]	-0.049792009	-0.424158576	-0.508773371 -0.679051909
## [320,]	-0.541112902	-0.502548725	-0.535868268 -0.351498606
## [321,]	-0.086765506	0.885373490	0.822890637 -0.011832789
## [322,]	-0.018506742	0.554014162	0.577029535 0.290206921
## [323,]	-0.396774058	0.510464079	0.723793560 0.977012234
## [324,]	0.093835806	-0.489483700	-0.696430620 -0.743222462
## [325,]	-1.215879223	-1.333219225	-0.981805113 -0.975164218

## [326,]	0.169204858	0.018158791	0.560722422 1.005876097
## [327,]	-0.402462288	-0.660654462	-0.930500424 -0.772086325
## [328,]	1.360889109	1.341702622	1.561728336 1.182151832
## [329,]	1.218683351	-0.538714229	-0.720514973 -0.579059240
## [330,]	0.749404350	0.453659622	1.781247177 2.373043896
## [331,]	-0.274477106	-1.198971360	-1.113892736 -1.260710292
## [332,]	-0.355534388	-0.483045862	-0.888478246 -0.722089990
## [333,]	-0.029883203	-0.889576421	-0.796405772 -0.823113511
## [334,]	-1.352396751	-1.367491247	-0.973024360 -1.130539424
## [335,]	1.446212563	0.495316224	0.816618670 0.961807163
## [336,]	-1.033855853	-0.796038416	-0.374804158 -0.447110152
## [337,]	-1.564283330	-1.473904928	-1.098915279 -1.120282444
## [338,]	0.728073486	0.699812266	2.812358532 -0.133215642
## [339,]	-0.369754964	0.678983966	0.215764243 0.308762261
## [340,]	0.564536865	0.483955332	0.380089775 0.339945542
## [341,]	-0.100275053	-0.366028682	-0.423976379 -0.093785543
## [342,]	-0.431614469	0.307861518	0.727556741 0.870834452
## [343,]	1.431991988	0.453659622	1.142760948 0.796097664
## [344,]	-0.031305261	0.533185861	0.827908211 -0.525197210
## [345,]	0.315676789	0.455553104	0.194439556 0.185833130
## [346,]	0.521875137	-0.384395456	-0.570238647 -0.802496466
## [347,]	-0.954931658	-0.518075277	-0.521693623 -0.647095489
## [348,]	0.912940971	-0.179520717	-0.859125441 -0.781106282
## [349,]	-0.299363114	-0.347851256	-0.174853854 -0.143524164
## [350,]	0.472103122	-0.230266032	-0.431377300 -0.159244661
## [351,]	-1.187438072	-0.918925390	-0.852100838 -0.577255249
## [352,]	0.150007081	0.215080906	0.124820723 0.788881698
## [353,]	-1.075806552	-0.872913780	-0.336796039 -0.656888585
## [354,]	-0.623592242	-0.730713292	-0.470012616 -0.771313185
## [355,]	1.481764003	0.824782070	0.475423672 1.066180953
## [356,]	0.571647153	-0.503874163	-0.841438494 -0.873109845
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## [359,]	-0.123027974	0.088217620	0.299808599 0.646366374
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## [361,]	-0.910847873	-0.394998955	0.020329755 0.291237773
## [362,]	-0.878140548	-0.078408785	0.132723402 0.121662578

## [363,]	-1.377282758	-1.332272484	-1.113892736 -1.260710292
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## [365,]	0.578757441	-0.639447465	-0.801548785 -0.502776174
## [366,]	0.247418025	0.145022076	-0.268807918 -0.592202607
## [367,]	1.076477593	1.176969699	1.213006977 1.455585392
## [368,]	-1.174639553	-1.099752909	-0.920590716 -0.991915567
## [369,]	-0.738778906	-0.845458293	-0.942417161 -1.031165267
## [370,]	0.507654562	0.273778844	0.615915730 0.953302632
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## [376,]	-1.609789172	-1.210142903	-1.023915099 -0.964597983
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## [391,]	0.256661399	0.512357560	1.016067217 0.876504139
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## [401,]	-0.102408139	-0.381555233	-0.821619079 -0.638075532
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## [412,]	-1.957482250	-1.253692986	-0.909050297 -1.180174960
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## [414,]	0.621419168	-0.821600422	-0.663314635 -0.590656328
## [415,]	-1.296225476	-1.153906491	-0.832281423 -0.548649099
## [416,]	0.891610108	0.766084132	1.716018721 1.816383680
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## [419,]	0.191246750	1.184543627	0.944566795 1.999359954
## [420,]	0.905830684	1.243241565	0.967145875 0.650232070
## [421,]	0.770735214	1.051999895	4.039155254 0.764141244
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## [430,]	2.640740929	2.349034981	1.956862249 1.940085950
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## [436,]	-0.232526408	-0.970996142	-0.892492305 -0.556380491

## [437,]	-0.506983520	-0.861552889	-0.107869248 0.245107135
## [438,]	-1.205213791	-0.959635250	-0.628066181 -0.648126341
## [439,]	0.082459346	-0.977433980	-0.855362261 -1.059719874
## [440,]	0.891610108	0.184785196	-0.255511348 -0.297378863
## [441,]	-0.040548635	0.154489486	-0.222395363 -0.500456756
## [442,]	-0.277321222	-0.698145403	-0.740836146 -0.631117279
## [443,]	0.536095713	0.964899729	1.018576004 1.011030358
## [444,]	0.763624926	0.211293942	-0.388100728 0.096406698
## [445,]	0.125121073	0.482061850	0.663582678 1.009999506
## [446,]	0.429441395	-0.746429191	-0.743094054 -0.725697973
## [447,]	-1.132688855	-0.686784512	-0.524704167 -0.656630872
## [448,]	-1.388659219	-1.238734479	-1.094499814 -1.116597147
## [449,]	-0.194130853	0.209400460	-0.281477291 -0.450975848
## [450,]	0.186269549	0.126087258	0.149281394 0.396642416
## [451,]	0.635639744	-0.513530920	-1.030563384 -0.947331207
## [452,]	0.500544274	0.586203354	0.247124077 -0.085023299
## [453,]	0.329897364	0.519931488	1.214261371 1.370540081
## [454,]	-2.149460023	0.038987091	-0.012911669 -0.645806924
## [455,]	0.097390950	-0.438170342	-0.793395228 -0.699153528
## [456,]	0.237463622	-0.042432629	-0.049289077 0.164958372
## [457,]	2.327888262	0.006797899	-0.251246411 0.428856549
## [458,]	-0.118761802	0.188572160	0.600863010 0.967476850
## [459,]	-0.354112331	-1.166024775	-1.113892736 -1.260710292
## [460,]	-2.406852445	-1.608720838	-1.093885161 -1.212981833
## [461,]	0.856058668	1.788564345	3.445827187 3.092063341
## [462,]	0.386779668	0.654368701	0.885610306 0.992732731
## [463,]	-1.172506467	-0.635281805	-0.669084845 -0.726213399
## [464,]	-0.582352572	-0.703636501	-0.981554235 -1.004620821
## [465,]	1.581308033	2.333887126	1.682150100 2.349849720
## [466,]	0.642750032	0.516144524	-0.142866823 -0.539371429
## [467,]	-0.799927382	-0.981410292	-1.095566049 -1.176670062
## [468,]	-0.489918829	0.357092047	0.253396044 0.351027204
## [469,]	0.692522047	0.127980740	-0.270187751 -0.238877997
## [470,]	-0.837611907	-0.859470059	-0.670590117 -0.502003035
## [471,]	-0.630702530	-0.725790239	-0.723525517 -0.522620080
## [472,]	-0.863919973	-0.962286125	-0.869662345 -0.761004663
## [473,]	-0.464321793	-1.262592351	-0.792517153 -0.507415009

## [474,]	-0.864631001	0.163956895	0.322387680 0.449731307
## [475,]	-0.628569443	-0.839588499	-0.816977824 -0.648126341
## [476,]	0.078193173	0.139341631	0.303571779 0.788108559
## [477,]	-1.920508753	0.056028428	-0.117528077 -0.493240790
## [478,]	0.034109388	0.249163580	0.858013652 1.715875585
## [479,]	-0.457922534	-0.115710378	-0.368783070 -0.018791042
## [480,]	1.410661124	1.207265409	0.588319076 0.481172301
## [481,]	0.976933562	0.105258957	-0.004758112 0.228355786
## [482,]	0.082459346	0.184785196	0.063731766 0.244076283
## [483,]	0.713852911	1.597322676	1.795045504 1.945240211
## [484,]	0.044774820	0.474487923	0.525599407 -0.303048550
## [485,]	-1.475404731	-1.288343704	-1.009702822 -0.961247713
## [486,]	1.986594443	2.500513531	2.541409563 1.940085950
## [487,]	-0.490629858	-0.790736667	-0.744097568 -0.870532715
## [488,]	2.576748338	3.265480209	4.234840621 3.437398846
## [489,]	-1.636097238	-0.976865935	-0.888101928 -0.937022685
## [490,]	1.794616670	2.102882337	1.004777677 0.380148780
## [491,]	0.265904773	0.465020514	0.353747514 0.739658503
## [492,]	1.524425730	3.269267173	3.294045588 2.656528265
## [493,]	2.086138474	0.968686693	1.435034605 1.566402009
## [494,]	0.036242474	-0.129154099	-0.453705502 -0.542206272
## [495,]	1.986594443	-0.278549819	-0.737574723 -1.022093767
## [496,]	1.808837246	1.169395772	-0.508647932 0.105942081
## [497,]	0.294345925	-0.139568250	-0.341939052 -0.480097424
## [498,]	0.055440252	0.006797899	-0.077889246 0.092798715
## [499,]	-0.267366818	1.930575486	1.123945047 1.687527148
## [500,]	0.706742623	1.127739170	1.082550066 0.903821724
## [501,]	-1.520910574	-0.629033315	-0.656164593 -0.666166256
## [502,]	-1.016791162	-0.712914562	-0.700068361 -0.404329784
## [503,]	1.467543427	1.852942729	1.046172658 1.388579995
## [504,]	-0.400329202	1.167502290	1.746124162 0.270363015
## [505,]	1.503094866	0.832355998	0.165588508 0.173205190
## [506,]	-1.319689426	-1.298947203	-1.051587017 -1.094897707
## [507,]	-2.280289321	-1.469171223	-1.022949216 -1.099639628
## [508,]	-0.827657504	-1.025907116	-0.685391958 -0.605861399
## [509,]	0.962712987	2.258147851	2.867551840 2.537980256
## [510,]	1.112029032	0.998982403	0.795293983 0.924954195

l -			
## [511,]	0.792066077	0.429044358	-0.540885842 -0.459222666
## [512,]	-0.555333478	-0.645127911	-0.399013951 -0.038119521
## [513,]	1.033815866	0.894840900	0.413958397 0.074758800
## [514,]	0.007090294	-0.326265563	-0.626184591 -0.600191712
## [515,]	0.075349058	0.858864744	1.157813669 1.000206409
## [516,]	0.884499820	1.430696271	1.012304037 0.507459033
## [517,]	-0.826235447	-0.486643478	-0.023824892 0.547662271
## [518,]	0.941382123	1.051999895	1.362279789 2.035439783
## [519,]	1.311117093	0.836142961	1.108892327 1.471048175
## [520,]	0.273015061	0.832355998	-0.021943302 0.054141755
## [521,]	0.127965188	-0.057580484	-0.319234532 -0.689102718
## [522,]	0.233908478	0.027626200	-0.109750838 -0.275988678
## [523,]	-0.935733880	-1.103729221	-0.526084000 -0.554834212
## [524,]	-3.109348889	-1.149740831	-1.113892736 -1.260710292
## [525,]	1.467543427	-0.542690541	-1.113892736 -1.260710292
## [526,]	-0.150047068	-0.798121246	-0.624679319 -0.844503695
## [527,]	-1.232232885	-0.550075120	-0.431753618 -0.736006496
## [528,]	-0.877429520	-0.702879108	-0.199063646 0.181452008
## [529,]	-0.656299566	-1.027421902	-0.812963765 -0.700699806
## [530,]	-0.942133139	-0.947895663	-0.928367955 -1.112035626
## [531,]	-0.733090675	-0.061367448	-0.289254530 -0.283720070
## [532,]	-0.688295862	0.294607145	0.046672016 -0.909189674
## [533,]	-1.237210087	-1.119445121	-0.938026784 -0.787806821
## [534,]	0.138630620	0.970580175	1.135234588 1.024173724
## [535,]	0.365448804	1.033065077	2.078538407 1.700412801
## [536,]	-0.423793152	-0.409957462	-0.381954201 -0.467469484
## [537,]	-0.079655218	-0.939374994	-0.733058907 -0.673639935
## [538,]	-0.584485658	-0.981031596	-0.915322264 -0.964855696
## [539,]	-0.041259664	-0.048113075	-0.651272459 -0.650188046
## [540,]	-0.464321793	-0.550832513	-0.587549275 -0.397371531
## [541,]	-0.614348868	-0.592678463	-0.242089339 0.128363117
## [542,]	2.896711293	0.343837673	-0.695928863 -0.636786967
## [543,]	-0.883828779	-1.177385666	-1.090561019 -1.185354992
## [544,]	1.467543427	1.574600893	2.103626274 2.615294175
## [545,]	2.292336822	4.564408776	3.595099999 2.873007238
## [546,]	0.294345925	-0.471684971	-0.341813613 -0.392217270
## [547,]	-0.123739003	0.377920347	0.048051849 -0.665908543

```
## [548,]
              0.028421158
                              -0.469980837
                                              -0.776711796 -0.801723327
## [549,]
              0.208311441
                               0.156382968
                                             -0.554182411 -0.151513269
## [550,]
              0.479213410
                              -0.254123903
                                             -0.286996622 -0.552257082
## [551,]
             -1.482515019
                              -0.401058097
                                              -0.345451353 -0.779560003
## [552,]
             -1.679469994
                              -0.827470215
                                              -0.548788520 -0.881614376
## [553,]
             1.581308033
                               2.561104951
                                              1.737343408 0.940932405
## [554,]
             0.777845502
                              -0.136538679
                                              -0.451322154 -0.116464292
## [555,]
             -0.600839321
                              -0.990120309
                                              -0.766174892 -0.727759678
## [556,]
             1.446212563
                               1.976019051
                                               2.410952652 2.764767751
## [557,]
             -0.206929371
                              -0.841292633
                                             -0.782983763 -0.727501965
## [558,]
             0.479213410
                               1.500755100
                                               0.704977660 0.362882005
## [559,]
             0.301456213
                              -0.888250984
                                             -0.817479581 -0.595037450
## [560,]
             -0.324960150
                              -0.292372237
                                              -0.603480071 -0.678278770
## [561,]
             0.132942390
                              0.103365475
                                              0.540652128 0.181967434
## [562,]
             -0.684740718
                              -0.736393737
                                             -0.863766697 -0.824659789
## [563,]
             -1.877847026
                              -0.986712041
                                              -0.677865598 -0.813062702
## [564,]
                              -0.302975736
             1.211573063
                                             -0.637223253 -0.384485878
## [565,]
             -1.542952466
                              -0.840724589
                                              -0.504382994 -0.521073801
## [566,]
            0.174893088
                              -0.241437575
                                             -0.664694468 -0.735748783
## [567,]
             -0.411705663
                            0.016265309
                                             -0.439656296 -0.419792568
## [568,]
             0.962712987
                              -0.225721675
                                             -0.248988503 0.413136052
## [569,]
              0.265904773
                               0.892947418
                                              1.309595267 1.973588648
## attr(,"scaled:center")
        radius mean
                                       perimeter mean
##
                        texture mean
                                                              area mean
                         19.28964851
                                                           654.88910369
##
        14.12729174
                                          91.96903339
                                       concavity mean
    smoothness mean compactness mean
                                                            points mean
         0.09636028
                          0.10434098
                                            0.08879932
                                                             0.04891915
##
## attr(,"scaled:scale")
##
        radius mean
                                       perimeter mean
                        texture mean
                                                              area mean
                                                           351.91412918
##
         3.52404883
                          4.30103577
                                          24.29898104
    smoothness mean compactness mean
                                       concavity mean
                                                            points mean
##
         0.01406413
                          0.05281276
                                            0.07971981
                                                             0.03880284
```

```
matstand.all <- data.frame(cancer$diagnosis, matstand)
matstand.all</pre>
```

##		cancer.diagnosis	radius_mean	texture_mean	perimeter_mean	
##	1	В	-0.512845261	-1.604183e+00	-0.53990056	
##	2	В	-1.000920224	-7.896900e-02	-0.93374423	
##	3	В	-0.876063838	-5.718735e-01	-0.86625169	
##	4	В	-0.807960355	-1.371681e+00	-0.78065139	
##	5	В	0.301558892	-1.413531e+00	0.23379444	
##	6	В	-0.725668646	-5.804381e-02	-0.73126661	
##	7	В	-0.742694517	1.078892e+00	-0.71809733	
##	8	M	-0.090036136	1.037041e+00	-0.01683336	
##	9	В	-1.032134320	8.172307e-05	-1.01070219	
##	10	В	-0.870388548	-1.006653e+00	-0.84279392	
##	11	M	1.833887264	4.534609e-01	1.88612710	
##	12	В	-0.532708777	-3.137962e-01	-0.56376987	
##	13	В	-0.280158360	3.372098e-01	-0.24647261	
##	14	В	-0.305697166	4.731766e-03	-0.38516156	
##	15	M	1.550122751	1.327669e+00	1.47047181	
##	16	В		7.882640e-01	0.18194041	
##	17	В	0.449116439	-1.246130e+00	0.41281429	
##	18	В	-0.413527681	-4.625975e-01	-0.44113098	
##	19	M	1.692005007	1.062616e+00	1.75854973	
	20				-0.53043514	
	21			-4.881728e-01	-0.71151269	
	22	В	-0.691616904	1.197468e+00	-0.64196245	
	23		-0.904440289	-1.626698e-01	-0.88806330	
	24	В	0.276020086	-6.741745e-01	0.31322164	
	25	В	-1.026459030	2.093336e-01	-0.96008279	
	26	M	-0.092873781	-8.136758e-01	-0.06333736	
	27	В	-0.192191361	-2.300954e-01	-0.22095714	
	28	M	0.332772989	1.390444e+00	0.42927589	
	29	В	-1.282982150	-5.695485e-01	-1.24816071	
	30	В	-0.206379587	-5.439733e-01	-0.26704961	
	31			-1.267055e+00	-0.38104616	
	32	М		7.394385e-01		
	33	М		9.393903e-01		
	34			-3.184462e-01	-0.55800831	
	35	В		-1.308905e+00	0.09551703	
##	36	В	-0.132600813	-9.624771e-01	-0.15222998	

## 37	M 1.365675817 4.697360e-01	1.30174045
## 38	B -0.632026357 -1.078728e+00	-0.57035451
## 39	M 0.752744468 -1.138443e-01	0.71323841
## 40	M 0.599511631 -1.208194e-01	0.69266142
## 41	M 1.754433200 1.806623e+00	1.68447255
## 42	M 1.550122751 -2.649707e-01	1.59393378
## 43	M -0.768233323 2.535091e-01	-0.59216612
## 44	B -0.322723037 -1.176379e+00	-0.32466519
## 45	B -0.064497330 -6.206990e-01	-0.12342219
## 46	M 1.121638336 5.929622e-01	1.04658572
## 47	B -0.850525032 -6.206990e-01	-0.88477099
## 48	M 3.292436862 -4.253972e-01	3.38413230
## 49	B -0.175165490 -9.291913e-02	-0.15922616
## 50	B -0.473118229 1.395830e-01	-0.47487725
## 51	M -0.075847910 -5.486233e-01	-0.04152575
## 52	B 0.247643635 -8.787763e-01	0.22556364
## 53	B -0.660402808 -4.718976e-01	-0.68764338
## 54	B 0.026307314 1.990300e+00	0.02390909
## 55	M 2.600051450 1.715947e+00	2.75447627
## 56	B -0.223405457 -7.974006e-01	-0.22548408
## 57	B -0.677428679 -1.069428e+00	-0.64443169
## 58	B -1.148477771 -9.717772e-01	-1.16091425
## 59	M 2.872465383 2.116587e-01	3.05490039
## 60	M 1.496207493 -2.579956e-01	1.44989481
## 61	M 1.402565204 1.283494e+00	1.49516420
## 62	M 0.948541983 1.253268e+00	0.99308554
## 63	M 0.934353757 1.457870e+00	0.92723915
## 64	M -0.195029006 5.325116e-01	-0.23824182
## 65	M 0.344123569 -1.169404e+00	0.43339128
## 66	B -0.507169971 6.813130e-01	-0.49874657
## 67	B -0.243268973 -5.276981e-01	-0.30532282
## 68	B 0.136975474 -8.369260e-01	0.02925911
## 69	B -0.078685556 -9.555021e-01	-0.12259911
## 70	B -0.697292195 1.698083e-01	-0.68970108
## 71	M -0.183678426 3.558100e-01	-0.14687996
## 72	B -1.156990706 -4.091220e-01	-1.13416416
## 73	B -1.443025336 -9.059411e-02	-1.31277247

##	74	B 1.056372498 -1.4088816	e+00 0.93135455
##	75	B 0.769770339 3.9607096	e-02 0.67619982
##	76	B -0.501494680 5.8366216	e-01 -0.50162735
##	77	M 1.186904174 -1.6499486	e-01 1.09597051
##	78	B -0.799447419 -5.8043816	e-02 -0.83003618
##	79	B -0.387988875 -1.3763316	e+00 -0.39833083
##	80	M 1.096099529 3.186096	e-01 1.06304732
##	81	B 0.239130699 -5.4397336	e-01 0.17494423
##	82	B -0.518520551 -7.8810056	e-01 -0.54072364
##	83	B -0.234756038 5.3018666	e-01 -0.27692657
##	84	B 0.145488410 -9.4155196	e-01 0.15642494
##	85	B -0.810798000 -1.4716576	e+00 -0.77406675
##	86	B -0.351099488 -1.434456	e+00 -0.41479243
##	87	B -0.507169971 -1.6320836	
##	88	B -0.212054877 2.6575816	e+00 -0.23165718
##	89	M 1.995633037 8.7196476	e-01 1.86143471
##	90	B -0.118412587 -1.4174466	e-01 -0.13329914
##	91	B -0.373800649 -1.4484076	
##	92	B -0.470280584 -4.602725	e-01 -0.47405417
##		M 0.420739988 2.100692	
##		B -0.319885392 1.3578946	
##		M 0.026307314 8.905649	
##		M 0.539921083 -8.7877636	
##		B -0.331235972 -2.3242046	
##		B -0.646214582 -4.2539726	
##		B -1.120101319 -4.091220	
	100	M 3.147716961 1.3067446	
	101	B -0.969706127 2.5583416	
	102	B -1.250632996 -2.4869566	
	103	B -0.805122710 -1.4530576	
	104	M 0.156838990 1.953835	
	105	B -0.263132489 -4.3237226	
	106	B -0.748369807 -1.0926786	
	107	B -0.444741778 -5.106875	
	108	B -0.541221712 1.7445836	
	109	B -0.938492031 1.143992	
##	110	B -0.842012096 4.929862	e-01 -0.86501707

## 111	B -0.705805130 -2.231203e-01	-0.69134724
## 112	B -1.676563530 3.279097e-01	-1.59261960
## 113	M 1.286221753 -5.044479e-01	1.21120168
## 114	M -0.112737297 7.719888e-01	0.06712078
## 115	B -0.671753388 5.371617e-01	-0.70986653
## 116	M 0.891789080 1.425320e+00	0.84081578
## 117	M 0.091573152 2.163087e-01	0.10374783
## 118	M 0.386688246 1.581832e-01	0.42927589
## 119	M 1.609713298 5.278616e-01	1.55277979
## 120	B -0.305697166 -1.626698e-01	-0.28309967
## 121	B -0.078685556 -4.835227e-01	-0.14523380
## 122	M 1.831049619 6.627128e-01	1.75854973
## 123	B -0.717155711 1.209093e+00	-0.73003199
## 124	M 2.151703519 -4.742226e-01	2.01370446
## 125	B -0.754045097 -7.578752e-01	-0.77982831
## 126	B -0.756882742 -2.626457e-01	-0.75637054
## 127	M -0.288671295 -8.671512e-01	-0.19585321
## 128	M 0.134137829 9.300903e-01	0.08234776
## 129	M 1.382701688 -8.826909e-02	1.29350966
## 130	M 0.040495540 7.580387e-01	0.07411696
## 131	M 0.219267183 7.533886e-01	0.41692969
## 132	B -0.132600813 -3.711862e-02	-0.10325673
## 133	B -0.260294844 2.039125e+00	-0.29174200
## 134	M 2.109138842 7.208383e-01	2.05897385
## 135	B -0.870388548 -5.044479e-01	-0.85267087
## 136	M 0.715855082 4.860112e-01	0.74204620
## 137	B -1.530424806 -5.695485e-01	-1.51031162
## 138	B -0.586624034 -1.522807e+00	-0.62262007
## 139	M 0.832198532 3.976604e-01	0.81612338
## 140	B -0.620675776 -2.440455e-01	-0.66912408
## 141	M 1.272033528 2.232838e-01	1.24000947
## 142	M 1.096099529 -2.071512e+00	1.26881726
## 143	M 1.703355588 2.083301e+00	1.61451077
## 144	M 0.034820250 6.650378e-01	0.18317503
## 145	M 0.128462539 5.208865e-01	0.22391748
## 146	B -0.657565163 -4.416723e-01	
## 147	M 0.468979955 -3.254213e-01	0.47866067

## 148	B 0.673290405 -2.324204e-01	0.60212264
## 149	B -0.481631164 -5.323482e-01	-0.55018905
## 150	B -0.501494680 -1.742949e-01	-0.53331592
## 151	B -0.464605294 -5.672235e-01	-0.52590820
## 152	B -1.244390176 -3.944364e-02	-1.23622605
## 153	B -0.348261843 -7.834505e-01	-0.33865755
## 154	B -1.080374288 -6.834746e-01	-1.09712557
## 155	B 0.080222572 1.023827e-01	0.16712498
## 156	B -1.331222117 -2.254453e-01	-1.32306097
## 157	B -0.152464329 -3.370464e-01	-0.23577258
## 158	M -0.901602644 4.790361e-01	-0.82592078
## 159	B -1.009433159 -2.254453e-01	-1.03498305
## 160	B -0.180840780 6.999132e-01	-0.20819940
## 161	B -0.243268973 -1.053153e+00	-0.29750356
## 162	B -0.813635645 1.558582e-01	-0.75102052
## 163	B -0.073010265 -7.160249e-01	-0.14194148
## 164	B -1.454943445 -1.136854e+00	-1.46545377
## 165	M 2.543298547 1.256329e-01	2.47462914
## 166	M 3.715245987 5.999372e-01	3.70924881
## 167		0.02226293
## 168		0.92312375
## 169	B -0.277320715 -9.183017e-01	-0.27404579
## 170	B -0.109899652 -3.207712e-01	-0.15840308
## 171	M -0.271645425 -1.463946e-01	-0.24647261
## 172	M -0.041796169 7.680743e-02	-0.03494111
## 173	M -0.118412587 3.581350e-01	-0.07280278
## 174	B -0.152464329 5.929622e-01	-0.19791091
## 175	M -0.197866651 7.913245e-02	-0.25223417
## 176	B -0.359612424 -2.998460e-01	-0.36129224
## 177	M 1.442292236 -1.673198e-01	1.37993303
## 178	B -0.870388548 -1.036878e+00	-0.89135562
## 179 ## 180	M 1.283384108 -3.928469e-01	1.30585585
## 180	B -0.552572293 2.860593e-01 B -0.538384067 6.285730e-02	-0.60698156 -0.55265829
## 181 ## 182		0.49923767
## 183	M 0.551271664 8.378249e-02 B -0.101386717 -1.399581e+00	-0.16087232
## 183	M 0.281695376 -6.067489e-01	0.28029845
## 104	n 0.2010933/0 -0.00/409e-01	0.20029043

## 185	B -0.824986226 1.326079e-01	
## 186	B -0.912953225 -1.613483e+00	
## 187	M 0.829360887 -4.874373e-02	0.88196977
## 188	M 1.226631206 6.092373e-01	1.16181689
## 189	M 1.711868523 8.610751e-02	1.61039537
## 190	B -1.244390176 -8.415760e-01	-1.25392227
## 191	M 0.562622244 -2.882209e-01	0.54039166
## 192	B -0.623513421 -1.948286e+00	-0.65142787
## 193	B 0.224942474 -1.013628e+00	0.18440965
## 194	M 0.117111959 1.918224e+00	0.19593277
## 195	M 0.446278794 2.372339e-01	0.37989110
## 196	M 1.411078139 1.627597e+00	1.52808739
## 197	M 0.270344796 1.499720e+00	0.24819833
## 198	B 0.139813120 1.099817e+00	0.10704015
## 199	B -0.189353716 -1.254694e-01	-0.18638779
## 200	B -0.544059357 -1.208929e+00	-0.54278134
## 201	M 0.244805990 1.374169e+00	0.14695952
## 202	B -0.944167321 6.255125e-01	-0.95390969
## 203	B 0.244805990 6.557377e-01	0.22885596
## 204	B -0.424878262 3.418599e-01	-0.40409239
## 205	B -0.685941614 -8.927265e-01	-0.69710880
## 206	M 0.378175311 1.083542e+00	0.48689147
## 207	B -0.717155711 -2.161453e-01	-0.74443588
## 208	M -0.671753388 -2.672957e-01	-0.69834341
## 209	B -0.178003135 -1.529782e+00	-0.25840727
## 210	M 1.975769521 1.692697e+00	2.08778165
## 211	B -0.351099488 -8.346009e-01	-0.32466519
## 212	M 0.165351926 5.348366e-01	0.14737106
## 213	M 0.871925564 1.216068e+00	0.91489296
## 214	B -0.240431328 -1.294955e+00	-0.25429187
## 215	B -0.921466160 -8.532011e-01	-0.88724022
## 216	B -1.122938965 -1.025253e+00	-1.12840260
## 217	B -0.390826520 -6.020988e-01	-0.38927696
## 218	B 0.020632024 2.883844e-01	0.01814753
## 219	M -0.475955874 -8.346009e-01	
## 220	M 2.594376160 6.394626e-01	
## 221	B -0.399339456 -1.281005e+00	-0.41931937

## 222	B -0.405014746 -1.655333e+00	-0.45635796
## 223	M 1.533096880 -9.059411e-02	1.54454899
## 224	B -0.759720388 3.906853e-01	-0.74731666
## 225	B -0.983894353 -9.624771e-01	-1.00740987
## 226	B -1.569300544 -1.603448e-01	-1.55887333
## 227	B -1.263118634 -1.429806e+00	-1.14609882
## 228	M 1.717543814 5.820726e-02	1.72151114
## 229	M 0.968405498 7.056787e-03	0.95193155
## 230	B -0.816473290 -1.048503e+00	-0.84732086
## 231	B -0.708642775 2.325103e+00	-0.70369343
## 232	B -0.507169971 -1.008978e+00	-0.56294679
## 233	B 0.037657895 8.378249e-02	0.24120216
## 234	M 0.608024567 3.302348e-01	0.61446884
## 235	B -0.385151230 2.357653e+00	-0.43701558
## 236	B -0.694454549 -7.253249e-01	-0.67817796
## 237	M 0.207916603 9.114901e-01	0.34696791
## 238	B -1.576678421 -1.439106e+00	-1.54076557
## 239	B -0.986731998 1.378819e+00	-0.98600980
## 240	B -1.034971965 1.326079e-01	-1.03909844
## 241	M -0.047471459 -5.207231e-01	-0.02218337
## 242	B -1.532694922 -8.043757e-01	-1.48685385
## 243	B -1.342288933 5.557618e-01	-1.32594175
## 244	M 0.914490241 8.766148e-01	0.78320019
## 245	M 1.589849783 1.233079e-01	1.59393378
## 246	B -1.261132283 1.170683e-02	-1.27244156
## 247	B -1.162665996 4.627610e-01	-1.18437203
## 248	B 0.097248443 1.325344e+00	0.15807110
## 249	B -1.683090114 -5.695485e-01	-1.65681982
## 250	B -0.603649905 2.078651e+00	-0.62550085
## 251	B 0.258994215 -5.927987e-01	0.27824075
## 252	M 0.434928213 9.091651e-01	0.75027700
## 253	B -0.810798000 -8.811014e-01	-0.76501288
## 254	M 1.073398368 4.023104e-01	1.33466365
## 255	B -0.053146749 -1.422831e+00	-0.06827584
## 256	B -1.340018817 5.604119e-01	-1.33211485
## 257	B 0.114274313 1.170683e-02	0.09387087
## 258	B -0.785259194 -3.998219e-01	-0.80163993

## 259	B -0.382313585 -6.509243e-01	-0.43619250
## 260	B -0.166652555 -1.146154e+00	-0.18556471
## 261	B -0.575273454 -3.649466e-01	-0.57200067
## 262	B -1.088887223 1.934499e+00	-1.08231013
## 263	M 0.378175311 4.425713e-02	0.40046809
## 264	B -0.064497330 -1.154338e-02	-0.13329914
## 265	M 0.820847952 1.090517e+00	0.85727737
## 266	M -0.319885392 5.883121e-01	-0.18391855
## 267	B -1.114426029 -4.207471e-01	-1.10782561
## 268	B -1.486725071 -1.081053e+00	-1.36544958
## 269	B -0.532708777 7.324634e-01	-0.56747373
## 270	M 1.496207493 9.789157e-01	1.52808739
## 271	B -0.376638295 -4.253972e-01	-0.36705380
## 272	M 1.430941655 1.281168e+00	1.66389556
## 273	B -0.019095008 -4.904978e-01	-0.09132208
## 274	B -0.515682906 -6.439492e-01	-0.52590820
## 275	M 1.433779300 7.440886e-01	1.46224101
## 276	M 3.967796404 -1.905700e-01	3.97263434
## 277	B 0.210754248 2.139837e-01	0.17082883
## 278	M 0.701666856 2.043775e+00	0.67208442
## 279	B -0.927141450 5.092614e-01	-0.96543280
## 280	B -1.815608141 1.441595e+00	-1.81032420
## 281	M 1.113125400 -7.299750e-01	1.16181689
## 282	B -0.813635645 1.256329e-01	-0.85061317
## 283	B -0.586624034 -9.059411e-02	-0.63002779
## 284	B -0.138276103 -8.578512e-01	-0.18885703
## 285	M 0.869087919 6.464377e-01	0.80789259
## 286	B 0.145488410 -5.672235e-01	0.09222472
## 287	M 0.017794379 1.050991e+00	0.03707837
## 288	M 1.635252105 2.256088e-01	1.58570298
## 289	M 1.933204844 9.928658e-01	1.93139649
## 290	B -0.419202972 -2.603207e-01	-0.38186924
## 291	B -1.334911056 1.997275e+00	-1.34610720
## 292	B -0.124087878 -7.485752e-01	-0.16992620
## 293	M -0.101386717 6.975881e-01	-0.05510657
## 294	B -0.544059357 -2.951960e-01	-0.56212371
## 295	M 2.236832873 6.069123e-01	2.27297460

## 296	M 2.980295898 5.371617e-01	3.02609260
## 297	M 1.822536683 3.651101e-01	1.88612710
## 298	M 1.612550944 6.650378e-01	1.56512598
## 299	B -0.583786389 -1.360056e+00	-0.58187763
## 300	M 0.602349276 5.123219e-02	0.73381540
## 301	M 1.436616945 -7.788004e-01	1.41285622
## 302	B 0.037657895 -2.603207e-01	-0.03082571
## 303	B -0.915790870 -1.471657e+00	-0.95802509
## 304	M -0.206379587 2.860593e-01	-0.13700300
## 305	M 0.460467020 2.232838e-01	0.43750668
## 306	M 1.811186103 1.981000e+00	1.74620354
## 307	M 0.310071828 2.634331e+00	0.47042987
## 308	B -0.336911263 -7.253249e-01	-0.36170378
## 309	B 0.233455409 -1.208194e-01	0.24161370
## 310	B -0.160977264 -1.253105e+00	-0.13906070
## 311	M 1.799835522 3.209347e-01	1.75854973
## 312	M 0.900302015 -5.137480e-01	0.86550817
## 313	B -0.121250233 -3.835468e-01	-0.17321851
## 314	B -0.634864002 -4.486474e-01	-0.64895863
## 315	M -0.240431328 2.302588e-01	-0.19132627
## 316	B -0.189353716 2.074001e+00	-0.25017647
## 317	M 1.748757910 -1.150804e+00	1.77501133
## 318	M 2.577350289 1.785698e+00	2.53224473
## 319	B -0.850525032 7.324634e-01	-0.84279392
## 320	B 0.179540151 -1.057803e+00	0.11938635
## 321	B -0.475955874 -6.695244e-01	-0.37528460
## 322	M 0.741393888 5.348366e-01	0.74616160
## 323	M 1.740244975 8.696397e-01	1.66389556
## 324	B -0.623513421 5.208865e-01	-0.63537781
## 325	B -0.484468810 -9.880524e-01	-0.54977751
## 326	M 1.229468851 -1.789449e-01	1.19885548
## 327	B -0.027607943 4.557859e-01	-0.08967592
## 328	M 0.468979955 8.417395e-01	0.56508405
## 329	B -0.319885392 3.465099e-01	-0.34812297
## 330	M 2.662479643 1.157942e+00	2.59809111
## 331	B -1.245525234 -1.701834e+00	
## 332	B -0.356774779 5.820726e-02	-0.38269232

## 333	B -0.944167321 -2.227289e+00	-0.95473277
## 334	B -0.552572293 -1.211254e+00	-0.60574694
## 335	M 0.233455409 -3.998219e-01	0.20087125
## 336	B 0.324260053 -1.483282e+00	0.25519451
## 337	B -0.450417068 -2.835709e-01	-0.51644278
## 338	B -1.446714274 -4.556225e-01	-1.36544958
## 339	M 1.317435850 4.976363e-01	1.27293266
## 340	B 0.454791729 -1.862260e+00	0.44573748
## 341	B 0.571135180 -1.029903e+00	0.50746846
## 342	M 1.388376978 1.232343e+00	1.23589407
## 343	M 0.605186921 6.022623e-01	0.63916123
## 344	B -0.802285065 -2.556706e-01	-0.74237818
## 345	M 0.576810470 5.232115e-01	0.58566104
## 346	B -1.234458418 -5.346732e-01	-1.21276828
## 347	B -1.489562716 -8.834264e-01	-1.44981526
## 348	B -0.765395678 -4.602725e-01	-0.75348976
## 349	M 0.261831860 -5.106875e-02	0.21774438
## 350	B -0.606487550 1.302094e+00	-0.59093150
## 351	B -0.030445588 -8.439010e-01	-0.09790671
## 352	M 0.976918434 -9.857273e-01	0.94781615
## 353	B -0.353937134 2.239077e+00	-0.38968850
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## 355	M 0.185215442 1.081217e+00	0.22350594
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## 357	B -1.206365731 -4.695726e-01	-1.19548360
## 358	B -0.649052227 -8.129402e-02	-0.67735488
## 359	M 1.169878303 1.605082e-01	1.13712450
## 360	B -1.360449862 6.162124e-01	-1.35639570
## 361	M 1.802673168 5.046114e-01	1.66801096
## 362	M 0.488843471 1.083542e+00	0.48277607
## 363	B -0.527033487 2.483205e+00	-0.59875076
## 364	B -1.097400158 -1.643708e+00	-1.07901781
## 365	B -0.552572293 -3.370464e-01	-0.58352379
## 366	B -0.734181581 -1.127554e+00	-0.71274731
## 367	M 1.008132530 3.372098e-01	1.04658572
## 368	B -1.240701238 2.071676e+00	-1.24651455
## 369	B -0.734181581 -1.992462e+00	-0.75060898

## 370	M 1.510395719 9.381808e-03	1.42108702
## 371	B -0.450417068 -6.904496e-01	-0.44113098
## 372	B -1.405852184 -1.262405e+00	-1.34857644
## 373	B -0.518520551 -6.269385e-02	-0.57981993
## 374	B -0.558247583 -2.928710e-01	-0.56294679
## 375	B -0.427715907 -4.974728e-01	-0.46705800
## 376	B -0.473118229 -1.501882e+00	-0.54072364
## 377	B 0.173864861 1.425320e+00	0.11239017
## 378	B -0.492981745 -4.207471e-01	-0.46623492
## 379	B -0.793772129 -1.192654e+00	-0.83044772
## 380	B -0.739856872 -1.013628e+00	-0.74484742
## 381	B -0.078685556 7.215739e-02	-0.13535684
## 382	B -1.026459030 8.835898e-01	-1.03374843
## 383	M 0.100086088 5.046114e-01	0.09387087
## 384	M 0.568297535 -3.277463e-01	0.61858424
## 385	B -0.790934484 -1.580197e-01	-0.79052835
## 386	B -1.097400158 -6.299991e-01	-1.07490241
## 387	M 2.163054099 3.953354e-01	2.27708999
## 388	B -1.032134320 -1.580197e-01	-1.03333689
## 389	M -0.146789039 1.323019e+00	-0.16128386
## 390	B 0.616537502 -8.346009e-01	0.52393006
## 391	M 1.027996046 2.032150e+00	1.04247032
## 392	B -0.830661516 2.343703e+00	-0.87654019
## 393	B -0.138276103 -6.857996e-01	-0.19585321
## 394	M 1.428104010 1.699672e+00	1.40874083
## 395	B -0.126925523 -6.881246e-01	-0.17321851
## 396	B -0.070172620 -7.276500e-01	-0.14811458
## 397	B -0.714318065 -7.602003e-01	-0.67941258
## 398	M 0.352636505 8.068641e-01	0.33873711
## 399	M 1.575661557 5.557618e-01	1.56101059
## 400	B -1.231620773 1.512081e-01	-1.22881833
## 401	B -1.214594902 -8.392510e-01	-1.19219128
## 402	B -0.214892522 -6.741745e-01	-0.24153414
## 403	M 1.459318106 1.669447e+00	1.47870261
## 404	M 1.848075490 -4.509724e-01	1.76266513
## 405	B -0.251781909 1.953835e-01	-0.20984556
## 406	M 1.791322587 5.790120e-01	1.72151114

## 407	B 0.579648115 -7.485752e-01	0.58977644
## 408	B -0.771070968 -1.969211e+00	-0.76665904
## 409	M 0.210754248 -6.090739e-01	0.27453689
## 410	B -1.294048966 -7.857755e-01	-1.30701091
## 411	B -0.351099488 -1.204279e+00	-0.28886122
## 412	B -0.796609774 1.811273e+00	-0.83168234
## 413	B -0.958355547 -1.004328e+00	-0.97572130
## 414	B -0.685941614 -6.090739e-01	-0.70986653
## 415	B -0.677428679 -1.225205e+00	-0.72962045
## 416	M 1.507558074 -1.091943e-01	1.48693340
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## 418	B 0.083060217 -6.392991e-01	0.08975548
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## 421	B -1.247511586 -9.183017e-01	-1.16009117
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## 423	B -0.844849742 -1.443757e+00	-0.86830939
## 424	B -1.378894556 -1.492582e+00	-1.25433381
## 425	B -0.771070968 -1.015953e+00	-0.75883978
## 426	M -0.410690036 1.057966e+00	-0.38186924
## 427	B -0.617838131 -1.006653e+00	-0.60657002
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## 429	B -1.125776610 6.983236e-02	-1.12099488
## 430	M 0.338448279 -4.695726e-01	0.46219908
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## 432	M 1.186904174 3.000095e-01	1.18650928
## 433	B -0.603649905 -8.462260e-01	-0.61809314
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## 436	B -0.004906782 -1.490257e+00	-0.07979896
## 437	M 1.328786430 1.605082e-01	1.19062468
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## 439	B -1.563341489 -1.743684e+00	-1.54858483
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## 444	B -0.186516071 -1.215904e+00	-0.19132627
## 445	M 0.945704337 4.647799e+00	0.88196977
## 446	B -1.311926130 -1.592558e+00	-1.30166089
## 447	B -0.107062007 1.041691e+00	-0.14111840
## 448	B -0.595136970 -3.161212e-01	-0.65348557
## 449	B -0.634864002 -2.184703e-01	-0.60286616
## 450	M 0.837873822 1.827549e+00	0.79143099
## 451	B -1.046322546 -8.904015e-01	-1.04321384
## 452	M -0.507169971 1.760123e+00	-0.44524638
## 453	M 1.538772170 9.114901e-01	1.51985660
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## 456	B 0.088735507 -9.555021e-01	0.08234776
## 457	B -0.169490200 -1.941311e+00	-0.16704542
## 458	M 1.873614296 2.750582e+00	1.79970372
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## 471	B -0.385151230 4.929862e-01	-0.40944241
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## 473	B -0.311372457 -2.021951e-01	-0.38516156
## 474	M 1.533096880 3.064460e+00	1.48281801
## 475	B -0.592299325 2.057726e+00	-0.62220853
## 476	M 1.161365367 -9.756917e-02	1.10008591
## 477	B -0.589461680 7.975640e-01	-0.54401596
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## 483	M 1.277708818 1.353244e+00	1.35112524
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## 487	B -1.265672515 -1.859200e-01	-1.25433381
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## 489	B -0.274483070 2.907094e-01	-0.32548827
## 490	M -0.864713257 -1.068693e-01	-0.76830520
## 491	M 1.101774820 2.953594e-01	1.08773971
## 492	M 1.836724909 2.334403e+00	1.98078127
## 493	M 0.378175311 -1.720434e+00	0.43339128
## 494	B -0.898764999 -3.881968e-01	-0.87160171
## 495	B -1.569016779 3.930103e-01	-1.53541555
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## 499	M 1.538772170 2.204202e+00	1.71328034
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## 508	B 0.193728377 -1.067103e+00	0.11074401
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## 530	B -1.265388750 -2.765958e-01	-1.27203002
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## 549	B -0.021932653 1.827549e+00	-0.02424107
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## 555
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## 30	-0.291233273	-1.208057907	-0.897150348	-0.840309540
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## 32	-0.422231139	-0.413127720	-0.884842716	-0.522948016
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## 63	0.832904598	0.301456213	0.194252605	0.995996923
## 64	-0.261112289	-1.048076429	-0.833718706	-0.723776396
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##	96	0.393024562	-0.103119168	0.620286027	0.396396889
##	97	-0.368524856	-1.624720777	-0.480016291	-0.604985343
##	98	-0.631373069	-0.898760383	-0.907375151	-0.776711796
##	99	-0.971228704	0.692522047	-0.365839334	-0.892115987
##	100	3.475594740	0.706742623	3.070451576	3.074526748
##	101	-0.880865751	0.841838093	0.465020514	-0.054181212
##	102	-1.042268762	-1.909843321	-1.531845474	-1.113892736
##	103	-0.758392692	0.140763706	-0.535116614	-0.704333298
##	104	0.084142391	0.164227657	-0.612370674	-0.186268834
##	105	-0.321922578	-1.721420692	-1.119066424	-0.569987768
##	106	-0.710369613	0.585867728	-0.417720737	-0.448060732
##	107	-0.480483986	-0.622881213	-0.010243437	0.178132442
##	108	-0.573404382	0.941382123	0.205613496	-0.088426151
##	109	-0.833410993	-1.026745565	-0.725600890	-0.919712641
##	110	-0.780273029	0.386779668	-0.843754160	-1.001561809
##	111	-0.688773435	1.268455366	-0.050006557	-0.227036619
##	112	-1.281531676	-0.164267644	0.495316224	0.543160914
##	113	1.199471295	0.642750032	0.107152439	0.713758413
##	114	-0.217635773	1.190242199	2.366076318	1.555456369
##	115	-0.645012760	-0.710337754	-1.035374525	-0.906039753
##	116	0.778345834	-0.927912564	0.124193776	0.396396889
##	117	-0.034636585	0.167782800	0.307861518	0.366291448
##	118	0.255206850	1.396440548	0.981941066	1.258165139
##	119	1.634236448	-0.179910277	0.497209705	0.481695639
##	120	-0.406034006	0.841838093	0.493422742	0.090701223
##	121	-0.188083109	-0.605105493	-0.813837146	-0.935768876
##	122	1.804732586	-0.388241713	0.576735944	0.943312401
##	123	-0.675417904	-1.537264236	-0.898665134	-0.866275483
##	124	2.532182775	-0.179199249	-0.354478443	0.351238728
##	125	-0.716621138	-0.398196116	-0.861174193	-0.789381169
##	126	-0.715484497	-0.556755536	-0.518832670	-0.694423591
##	127	-0.354316844	3.088689066	1.366317887	1.483955946
##	128	0.027878666	-0.678341459	-0.719163052	-0.061456693
##	129	1.372809036	-1.008969846	-0.455590375	0.049055363
##	130 131	-0.071293255	0.528985425	0.209400460 2.237319550	0.721284774 2.314364362
##		0.085563192 -0.226160580	0.221109960 -0.411705663	0.196146087	0.097474948
##	132	-0.220100300	-0.411/00000	0.19014006/	0.09/4/4948

## 133	-0.331015705	-0.686162775	-0.673530139	-0.739205434
## 134	2.341795421	1.040926154	0.218867870	1.945572709
## 135	-0.819487141	1.638190336	0.052241464	-0.604232707
## 136	0.709579058	1.119139320	0.783125469	0.799057163
## 137	-1.195146966	0.536095713	-0.569199287	-1.113892736
## 138	-0.586191592	-0.231104350	-0.983303774	-0.866526362
## 139	0.749361490	1.104918745	0.023839236	0.777732476
## 140	-0.617449218	-0.977684579	-1.076084386	-0.866526362
## 141	1.247778534	-0.139381636	0.042774055	0.755153395
## 142	0.983509520	1.567087457	3.280628064	2.650541786
## 143	1.722326119	0.102368152	-0.017817365	0.692433726
	-0.026111778	0.607198592	1.826433983	1.564237123
	-0.028669220	0.642750032	1.561346520	0.673617825
	-0.642171158	0.308566501	-0.922523006	-0.818733974
## 147	0.358357013	0.052596137	0.470700959	0.134730431
## 148	0.520612505	0.035531446	-0.372277172	-0.378567339
	-0.504637606	-1.478248846	-1.321668985	-0.945553145
	-0.534758590	-0.824102360	-0.685269726	-0.782356566
	-0.492418716	-0.799927382	-1.249716674	-1.057783720
	-1.037722198	0.792066077	-0.397839178	-1.001825232
	-0.405465686	-0.681896603	-0.175165709	-0.499992617
_	-0.937697797	-0.143647809	-1.030072776	-0.986948126
	-0.011051286	-0.625014299	1.197798000	0.594591043
	-1.069263984	0.322787076	-0.847919820	-0.773952131
_	-0.234685387	-1.200236590	-1.208438769	-0.863390379
	-0.806415771 -0.892232160	1.872829837 -1.062297005	0.330583300 -1.130806012	0.195693949 -0.863892136
	-0.266795493	-0.628569443	-0.518075277	-0.517930443
	-0.293222395	-1.621876662	-1.018522537	-0.704835056
	-0.741058918	-1.149042517	0.260524471	0.049431681
	-0.173875098	-0.634968702	-0.935777379	-0.925482851
	-1.161047738	-1.870736738	-1.385668673	-1.067718516
## 165	2.918640689	-0.209062458	0.438511767	0.988470563
## 166	4.532670797	0.927161547	1.648446686	2.487470647
	-0.038898989	0.191957779	-0.532087043	-0.395877967
## 168	0.832336278	-0.452945332	0.434724804	0.102492521
	-0.329594904	-0.179199249	-0.366596727	0.051815029
				· · ·

##	170	-0.198597038	-1.203080705	-0.768393581	-0.752502004
##	171	-0.341813794	1.382219972	0.355198565	0.423993544
##	172	-0.157393805	0.685411759	0.169637341	0.298554206
##	173	-0.218772414	1.602638897	1.139100062	0.060972100
##	174	-0.266795493	-1.194548360	-0.411850943	-0.603103753
##	175	-0.254292443	-0.418104922	-0.785056221	-0.379069096
##	176	-0.422231139	0.211866585	-0.168159826	-0.626059152
##	177	1.412591468	0.635639744	0.423363912	0.545669701
##	178	-0.786240394	-1.347419549	-1.072865467	-0.773701252
##	179	1.196629693	0.962712987	1.216732819	1.362279789
##	180	-0.557491409	-1.154019719	-1.211089644	-0.814970794
	181	-0.550955724	-0.035571433	-0.444418832	-0.588678229
	182	0.462643818	-0.332781467	-0.380608493	0.111524153
	183	-0.205132723	-0.311450603	-0.797742550	-0.980550720
	184	0.175357825	-0.540401874	-0.160207202	-0.166825737
	185	-0.760381813	0.642750032	-0.692086261	-1.051097803
	186	-0.827443628	-0.794950180	-1.081764831	-0.958849714
	187	0.682299676	1.261345078	1.000875885	1.281998613
	188	1.193788091	-0.146491924	-0.137296071	0.332422827
	189	1.759266949	-1.149042517	-0.354099746	0.334931614
	190	-1.037153878	-0.425926238	-1.087823973	-0.975533146
	191	0.449288287	0.060417453	0.177211268	0.071132687
	192	-0.602957046	-0.543245989	-0.983114426	-0.786997822
	193	0.090962237	-1.093582271	-0.356939969	-0.419084245
	194	0.011113212	1.247124502	1.044425968	0.942058008
	195	0.317437940	-0.027750117	-0.309602922	-0.286871183
	196	1.355759422	1.787506382	1.415548416	1.315867234
	197	0.175357825	0.429441395	-0.125935180	0.435283084
	198	0.022195461	-0.470721052	-0.346147122	-0.724779910
	199	-0.294927356	0.792066077	0.179104750	-0.586922078
	200	-0.548114121	-1.086471984	-0.494406753	-0.256013106
	201	0.124777304	-0.177066162	-1.004132074	-0.813089204
	202	-0.838241716	-0.593729033	-0.888250984	-0.660554970
	203	0.110285132	-0.797083266	-0.034858702	-0.253504319
	204	-0.495828639	0.211155557	0.313541963	0.222036210
	205206	-0.666608937 0.217129379	1.325337669 1.559977170	-0.597033471 1.565133484	-0.611382749 1.432525818
##	200	U.ZI/1Z95/9	1.3399//1/0	1.303133484	1.432323818

##	207	-0.688205115	-0.802060468	-0.867043987	-0.691538486
##	208	-0.635919632	0.236041564	-0.855872444	-0.777088114
##	209	-0.252019161	-1.606945057	-1.291373275	-1.079296566
##	210	1.864406234	1.261345078	3.386663049	2.005783591
##	211	-0.392962636	-1.292670332	-0.161721988	0.284755879
##	212	0.005714168	1.232903927	0.608925136	0.508037900
##	213	0.780050795	0.763624926	1.489394209	1.008540857
##	214	-0.321354258	-0.905159642	-0.352016916	-0.477037219
##	215	-0.841083319	0.308566501	0.048454501	-0.472270524
##	216	-0.974638627	1.211573063	-0.449341885	-0.977916494
##	217	-0.457751168	1.147580472	0.139341631	-0.627188106
##	218	-0.103687521	-0.501295290	0.122300294	-0.478793369
##	219	-0.505205927	2.235454519	1.243241565	0.865540012
##	220	2.930007098	-0.851121454	0.192359123	0.546924094
##	221	-0.462581892	0.022021899	-0.386478286	-0.952326869
##	222	-0.454341245	-0.605105493	-0.878594226	-0.817855899
##	223	1.597295618	1.325337669	1.133419616	1.642009512
##	224	-0.720031061	0.984043850	-0.202999892	-0.538000737
##	225	-0.867510220	-0.600128292	-1.161101722	-1.113892736
##	226	-1.232371956	0.784955789	-0.868558772	-1.113892736
##	227	-1.086597758	2.071917898	2.197556431	0.376326595
##	228	1.691068494	1.204462775	0.843716889	1.561728336
##	229	0.843134366	-0.474987225	0.292713663	0.185658802
##	230	-0.752709487	-0.945688283	-1.131563405	-1.101678707
##	231	-0.681385269	-0.198397026	-0.352206264	-0.215747078
##	232	-0.527938745 -0.071009095	-0.678341459	-1.110167060	-0.849341173
##	233234	0.451277409	-1.279160785 1.460433139	2.252467405 0.521824970	2.653050573 0.740100674
##	235	-0.417684576	-0.967019147	-1.173977399	-0.863390379
##	236	-0.666040617	1.168911336	-0.221745363	-0.577137810
##	237	0.046917401	0.571647153	1.773416490	1.014812824
##	238	-1.232087796	0.514764850	-0.530572257	-0.792140835
##	239	-0.874898386	0.014911611	-0.605932836	-0.815472552
##	240	-0.901325288	0.756514638	-0.845079597	-0.507895296
##	241	-0.149153158	0.941382123	0.446085695	0.114032940
##	242	-1.204808414	1.325337669	-0.422833138	-0.595577393
,, ,,		-1.097111686	-1.185304985	-0.829553045	-0.645376810
	2 13	1.05/111000	11100000	0.02333073	0.0.5570010

##	244	0.790564724	-0.692562034	-0.784677525	-0.751247611
##	245	1.566037992	0.699632335	1.525370364	1.917976055
##	246	-1.049088607	-0.814147957	-1.023256241	-0.820741004
##	247	-0.987709998	-1.080072724	-1.234947515	-1.082909219
##	248	0.004293366	-0.568131996	0.353305083	0.151790181
##	249	-1.287214880	-0.736645819	-0.850381346	-0.914695068
##	250	-0.603525366	-0.852543512	-0.754381815	-0.605236222
##	251	0.098066242	0.175604117	0.607031654	-0.145375610
##	252	0.337044996	1.033815866	3.920624938	2.870060627
##	253	-0.747026283	-0.903737585	0.133661185	0.149281394
##	254	0.963618304	1.894160700	2.901931689	2.886367741
##	255	-0.172454297	2.022145883	-0.128586055	0.153044574
##	256	-1.090291841	0.571647153	-0.809482138	-0.857118412
##	257	0.013670654	-0.887383923	-0.498761762	-0.007894096
##	258	-0.724861785	-0.553200392	-0.969670704	-0.764795059
##	259	-0.433029228	0.138630620	-0.984629211	-0.655662835
##	260	-0.251735001	0.101657123	-0.436466208	-0.277964990
##	261	-0.593011438	0.464992834	-0.128018010	-0.513916384
##	262	-0.947643405	-0.430903440	-0.525649204	-0.361382149
##	263	0.267141579	0.912940971	0.340050710	0.725047954
##	264	-0.147732357	-1.169662352	-0.967209178	-0.738201920
##	265	0.694518566	1.659521200	0.856971262	1.917976055
##	266	-0.383869508	2.199903080	1.682529360	1.218024551
##	267	-0.948211726	-1.124867538	-0.857197881	-0.389606000
##	268	-1.167583423	0.104501238	0.923243128	-0.034361796
##	269	-0.535326911	-1.026745565	-0.991067050	-0.898889711
##	270	1.421116275	0.450772259	0.974367138	1.456359292
##	271	-0.416547935	-1.131977826	-0.291425496	-0.186896031
##	272	1.330185001	0.073927000	2.678500827	1.476429586
##	273	-0.130114423	-1.131266797	-0.960581991	-0.777589872
##	274	-0.522823861	-0.329937352	-0.682618852	-0.690911289
##	275	1.401225059	-0.791395036	0.728214494	0.283501485
##	276	5.240229770	1.268455366	0.894840900	2.901420462
##	277	0.073912623	-0.034860404	-0.395566999	-0.257894696
##	278279	0.577444551 -0.836536755	-0.839744994 -1.567838474	-0.038645666 -1.175302836	0.046546577 -1.113892736
	279	-0.830530755	-1.567838474	-1.1/5302836	-1.113892736
##	∠0U	-1.332033094	-1.0933027/1	-1.00203/100	-1.113092/30

## 281 0.997717532	0.720963198	2.087734482	0.998505710
## 282 -0.758108532	-0.799927382	-1.140084073	-1.050332623
## 283 -0.595568880	-0.888805980	-0.878594226	-1.019687793
## 284 -0.226160580	-0.151469126	-0.720299141	-0.523700652
## 285 0.776925033	0.063972597	-0.272490677	0.022713102
## 286 0.031572749	-0.707493639	-0.707423464	-0.462611695
## 287 -0.125567859	-0.123027974	0.497209705	0.284755879
## 288 1.588770811	0.521875137	0.504783633	0.656056318
## 289 2.015011156	0.308566501	1.065254268	2.288022101
## 290 -0.481052307	0.799176365	0.550227198	-0.108245566
## 291 -1.090007681	-1.075806552	-1.034427785	-1.113892736
## 292 -0.215362492	-0.948532398	-0.768772277	-0.793269789
## 293 -0.187514789	1.680852064	0.423363912	0.623442090
## 294 -0.558343890	-0.287986653	-0.617104379	-0.562963165
## 295 2.350320228	0.706742623	1.724185962	1.956862249
## 296 3.370455455	0.472103122	2.011995207	1.783755963
## 297 1.855881427	0.585867728	1.317087358	1.501517454
## 298 1.719484517	0.138630620	-0.031071738	0.741355068
## 299 -0.595853040	0.969823275	-0.269839803	-0.639606600
## 300 0.457244774	0.443661971	1.608683567	1.690930854
## 301 1.426799479	-0.669809113	0.268098398	0.382598562
## 302 -0.061915967	-2.175768089	-0.987280086	-0.803430375
## 303 -0.818634661	-1.508112056	-1.271681064	-1.075131980
## 304 -0.279014383	1.012485002	0.805847251	0.698705693
## 305 0.302377448	0.436551683	0.304074554	0.324896467
## 306 1.887139053	-0.339180726	0.057921910	0.835434571
## 307 0.176210306	0.600088304	1.976019051	2.084810374
## 308 -0.418537056	0.172760002	-0.302597039	-0.700444679
## 309 0.098350403	-1.065141120	0.234015725	0.021333270
## 310 -0.265943013	0.621419168	0.281352772	-0.127939542
## 311 1.830307006	-0.341313813	0.510464079	0.796548376
## 312 0.776640872	0.315676789	-0.004562992	0.474169279
## 313 -0.238095310	0.223243046	-0.469034096	-0.543394628
## 314 -0.623132422	1.858609261	-0.610477192	-0.370162903
## 315 -0.311692810	0.550316289	0.743362349	0.121308422
## 316 -0.263669731	-1.506689998	-1.080818091	-0.954459338
## 317 1.824623802	0.280125349	0.538866307	1.369806149

## 31	8 2.884541461	-0.090320650	1.209158891	1.332174348
## 31	9 -0.785672074	-0.049792009	-0.424158576	-0.508773371
## 32	0 0.039245075	-0.541112902	-0.502548725	-0.535868268
## 32	1 -0.506342567	-0.086765506	0.885373490	0.822890637
## 32	2 0.609838817	-0.018506742	0.554014162	0.577029535
## 32	3 1.730850926	-0.396774058	0.510464079	0.723793560
## 32		0.093835806	-0.489483700	-0.696430620
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## 32		1.360889109	1.341702622	1.561728336
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## 33		0.749404350	0.453659622	1.781247177
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## 33		-0.355534388	-0.483045862	-0.888478246
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      -0.356137441
## 13
      -1.153321259
## 14
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       1.074943198
## 16
       -0.297894289
## 17
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## 18 -0.717708868
       2.038016914
## 19
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      -0.425977681
## 21
## 22
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      -0.505095591
## 23
## 24
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## 25
      -0.470046615
## 26
        0.045637224
## 27 -0.544267977
## 28
       0.994536722
## 29
      -0.670031952
      -0.881098950
## 30
## 31 -1.033175429
## 32 -0.563854170
## 33
       1.321574599
      -0.576997536
## 34
## 35
      -0.139916181
## 36
       -0.623901313
       0.788366272
## 37
## 38
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## 39
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       1.072108354
## 40
## 41
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       2.053479698
## 42
       1.450431130
## 43
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44 -0.720028286 ## 45 -0.915632501 0.228355786 ## 46 ## 47 -0.907643396 3.669340602 ## 48 0.126043700 ## 49 -0.462057510 ## 50 ## 51 0.182998287 ## 52 -0.286554914 ## 53 -0.838576295 ## 54 -0.124711110 2.914241328 ## 55 0.539930879 ## 56 ## 57 -0.580605519 -1.198756072 ## 58 ## 59 3.924476535 1.178286136 ## 60 1.306369528 ## 61 ## 62 1.427236955 ## 63 0.439422784 -0.737295061 ## 64 ## 65 1.253538350 -0.533444028 ## 66 -0.627767009 ## 67 ## 68 -0.776982873 -0.304337115 ## 69 ## 70 -0.704823215 0.140991057 ## 71 ## 72 -0.803269605 ## 73 0.004145421 -0.183985115 ## 74 ## 75 -0.546587394 ## 76 -0.295574871 0.237633456 ## 77 ## 78 -0.686010162 -0.604057408 ## 79 1.013349776 ## 80

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## 127 1.213592825
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## 128
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## 130 0.321390202
## 131 1.241941262
## 132 -0.020595033
## 133 -0.416700011
## 134 2.318924153
## 135 -0.160790939
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## 139 1.299411275
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## 141 0.731669398
## 142 2.530248864
## 143 1.262558307
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## 145 1.002783540
## 146 -0.860481905
## 147 0.441742202
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## 151 -1.095181192
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## 522 -0.275988678
## 523 -0.554834212
## 524 -1.260710292
```

525 -1.260710292 ## 526 -0.844503695 ## 527 -0.736006496 ## 528 0.181452008 ## 529 -0.700699806 ## 530 -1.112035626 ## 531 -0.283720070 ## 532 -0.909189674 ## 533 -0.787806821 ## 534 1.024173724 ## 535 1.700412801 ## 536 -0.467469484 ## 537 -0.673639935 ## 538 -0.964855696 ## 539 -0.650188046 ## 540 -0.397371531 ## 541 0.128363117 ## 542 -0.636786967 ## 543 -1.185354992 ## 544 2.615294175 ## 545 2.873007238 ## 546 -0.392217270 ## 547 -0.665908543 ## 548 -0.801723327 ## 549 -0.151513269 ## 550 -0.552257082 ## 551 -0.779560003 ## 552 -0.881614376 ## 553 0.940932405 ## 554 -0.116464292 ## 555 -0.727759678 ## 556 2.764767751 ## 557 -0.727501965 ## 558 0.362882005 ## 559 -0.595037450 ## 560 -0.678278770 ## 561 0.181967434

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## 562 -0.824659789
## 563 -0.813062702
## 564 -0.384485878
## 565 -0.521073801
## 566 -0.735748783
## 567 -0.419792568
## 568 0.413136052
## 569 1.973588648
colnames(matstand.all) <- colnames(cancer[2:10])</pre>
t2testcan <- hotelling.test(radius mean + texture mean + perimeter mean + area mean + smoothness mean + compactne
ss mean + concavity mean + points mean + symmetry mean + dimension mean ~ diagnosis, data=cancer)
cat("T2 statistic =",t2testcan$stat[[1]],"\n")
## T2 statistic = 1220.313
print(t2testcan)
## Test stat: 120.09
## Numerator df: 10
## Denominator df: 558
## P-value: 0
# In the above we standardized using scale function
matabsdev.all
       cancer.diagnosis radius mean texture mean perimeter mean
##
                                                                  area mean
## 1
                     B 0.034051742 1.162510676
                                                   0.027573173 0.0161971331
## 2
                     B 0.454023221 0.362703331
                                                   0.366270503 0.3182594580
                     B 0.329166835 0.130201196
## 3
                                                   0.298777961 0.2421045162
                   B 0.261063352 0.930008541 0.213177663 0.2091419295
## 4
              B 0.848455895 0.971858925 0.801268167 0.7200620236
## 5
                     B 0.178771643 0.383628523
## 6
                                                   0.163792876 0.1383860322
```

##	7	В	0.195797514	1.520563965	0.150623600	0.1560039664
##	8	Μ	0.485237318	0.441754057	0.443228462	0.3475279617
##	9	В	0.323491545	0.564980189	0.275320187	0.2401153946
##	10	В	0.014188226	0.127876174	0.003703859	0.0053990444
##	11	М	0.266738642	0.778882153	0.321001115	0.2230657808
##	12	В	0.241199836	0.446404100	0.182312172	0.1955022385
##	13	В	0.678197187	1.229936296	0.749414141	0.5646263776
##	14	В	0.996013442	0.804457388	0.980288020	0.8618579786
##	15	М		0.020925192	0.126342746	0.0895104725
##	16	В	0.002837645	0.953258755	0.037038590	0.0073881660
##		В	0.139044612	0.046500427	0.144038962	0.1082650478
##		В	0.144719902	1.639140054	0.074488720	0.1477633198
##		М	0.357543287	0.279002562		0.2511976436
##		В		0.232502135		0.6140702577
##		В		0.651005979		0.3529270061
##		В		0.211576943		0.2747829427
##		В	0.736085147	0.127876174		0.5055210497
##		В	0.340517416	0.102300940		0.2671106165
##		В		0.825382580		0.2051636863
##		М		0.123226132		0.0218803377
##		В	0.675359542	0.867232965		0.5694571016
##		M		0.520804783		0.3472438014
##		В	0.085129354	0.637055851		0.0727450190
##		В	0.224173966	0.734706747		0.1588455687
##		В	0.482399673	0.179026644		0.4006659247
##		М		0.179026644		0.2196558580
##		M		0.348753203		0.2833077496
##		В	0.073778773	0.581255338		0.0366566697
##		В	0.794540637	0.437104014		0.6424862807
##		В		0.030225278		0.0753024610
##		М		2.431972335		0.4702851812
	38	В		0.355728267		0.1750427019
##		М		0.627755765		0.0920679146
##		М		0.530104868		0.4003817645
##		М		1.122985313		0.0173337740
##	42	М	0.0000=00=0	0.086025790		0.2500610027
##	43	М	0.683872477	0.395253630	0.596/32841	0.5867908756

##	44	В	0.468211447	0.513829719	0.444874622	0.3665666971
##	45	В	0.150395192	0.611480616	0.122227348	0.1199156172
##	46	М	0.610093704	0.032550299	0.566690429	0.4194204999
##	47	В	0.896128333	0.351078224	0.745298742	0.6078187326
##	48	М	1.603269500	0.967208883	1.498828282	1.5165631492
##	49	В	1.316667342	0.481279420	1.243673550	1.1985878515
##	50	В	0.045402322	1.025334417	0.065846383	0.0218803377
##		М	0.252550417	0.383628523		0.1827150281
##		В		0.934658584		0.1298612253
##		В		0.102300940		0.6464645240
##		В		0.346428182		0.0150604922
##		М	0.312140965	0.971858925		0.2492085220
##		В		0.499879591		0.5498500457
##		В		1.029984459		0.2048795261
##		В		0.992784118		0.1633921324
##		М		1.190410933		0.0287001833
##			0.334842126	3.099253463		0.2807503076
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##		М	0.2.000000	1.006734246		0.1432167561
##		М		0.018600171		0.0616627700
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##		M		0.209251922		0.1898190339
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##		В	0.422809125	0.697506406		0.3225218614
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##		В	0.005675290	0.616130658		0.0150604922
##		В	0.391595028	1.585664563		0.2750671029
##		В	0.295115094	0.934658584		0.2219291399
##		M		0.218552007		0.1304295457
	78	В		0.769582068		0.7231877862
##	79	В	0.124856386	0.978833990		0.0866688702
##	80	M	0.241199836	0.279002562	0.2843/4064	0.1523098834

##	81	В	0.468211447	0.041850384	0.422239928	0.3702607801
##	82	В	0.170258708	1.650765160	0.162558257	0.1170740149
##	83	В	0.207148095	0.316202904	0.212354584	0.1582772483
##	84	В	0.209985740	0.179026644	0.188896810	0.1571406074
##	85	В	0.414296189	0.404553715	0.464216997	0.3321833092
##	86	В	0.286602158	2.480797783	0.275731727	0.2273281843
##	87	В	0.323491545	0.062775577	0.285197144	0.2611432517
##	88	В	0.983527803	0.127876174	0.942837890	0.6368030761
##	89	М	0.039727032	1.081134929	0.055146345	0.0278477026
##	90	В	0.073778773	0.197626815	0.101650353	0.0591053279
##		В		0.00000000		0.0838272679
##		В		0.209251922		1.0789563945
##		М		0.090675833		0.0537062835
##	* -	В		0.267377456		0.0235852991
##			0.082291709	0.125551153		0.0659251734
##		М	0.697493174	0.402228694		0.4793783085
##	- ·	В		0.341778139		0.1528782039
##		В	0.533477285	0.241802221		0.3793539075
##		В		0.544054997		0.5472926036
	100	М		0.216226986		0.5109200941
	101	В	0.394432673	0.104625961		0.3236585023
	102	В	0.462536157	0.216226986		0.3338882706
	103	В	0.366056222	1.141585484		0.2915483963
	104	М		0.611480616		0.2651214949
	105	В	0.266738642	0.597530488		0.1827150281
	106	В	0.473886737	0.274352520		0.3844687916
	107	В	0.908046443	0.695181384		0.6027038485
	108	В	0.607256058	0.911408370		0.5194449010
	109	В	0.269576288	0.476629377		0.2287489854
	110	В	0.436997350	0.120901110		0.3597468516
	111	В		1.034634502		0.2915483963
	112	В		0.141826303		0.1361127503
	113		0.323491545	0.595205466		0.2278965047
	114	М		0.727731683		0.0008524807
	115		0.008512935	0.504529634		0.0073881660
	116		0.445510286	0.957908797		0.3532111663
##	117	I۱	0.278089223	0.574280274	U.250800892	0.2020379238

##	118	Μ	0.366056222	1.171810762	0.372032061	0.2690997381
##	119	Μ	0.697493174	0.399903673	0.686448538	0.4788099881
##	120	В	0.076616419	1.506613837	0.083954138	0.0446131562
##	121	В	0.771839476	0.571955253	0.751883380	0.6493061263
##	122	М	0.686710122	1.541489157	0.674513881	0.5805393505
##	123	В	0.357543287	0.316202904	0.381085939	0.2634165335
##	124	М	0.002837645	0.767257046	0.024692393	0.0102297683
##	125	В	0.397270319	1.067184801	0.386435957	0.2798978269
##	126	В	0.791702992	1.097410079	0.796329688	0.6686290219
##	127	М	0.122018741	0.783532196	0.163381337	0.0625152507
##	128	М	0.139044612	0.451054142	0.129635066	0.1082650478
##	129	М	0.170258708	0.225527071	0.176962153	0.1298612253
##	130	М	0.368893867	1.088109993	0.309066458	0.3063247283
##	131	М	0.195797514	0.392928609	0.242808535	0.1653812540
##	132	В	0.306465674	0.853282836	0.313181857	0.2369896321
##	133		0.374569158	0.411528779	0.319766495	0.2827394292
	134		0.576041962	0.583580360		0.4162947374
##	135	В	0.156070482	0.160426473	0.178196773	0.1005927215
	136		0.567529027	0.730056705		0.4546563685
##	137	В	0.147557547	0.839332708	0.148154361	0.0957619976
	138	В	0.141882257	1.213661146		0.1040026443
	139	M		0.832357644		0.1616871711
	140	В	0.436997350	0.520804783		0.3091663306
	141	M		0.281327584		0.6740280663
	142	M	0.7.00000	0.988134075		0.5282538682
	143	M		0.606830573		0.1943655975
	144	M		2.766775410		0.1230413797
	145	M	0.000.=.00=	0.567305210		0.0304051446
	146		0.584554897	0.525454826		0.4873347950
	147		0.161745773	2.799325709		0.1406593140
	148		0.147557547	0.283652605		0.1076967273
	149		1.029781419	0.997434160		0.6737439061
	150		0.439834996	1.820491719		0.3165544966
	151		0.488074963	0.574280274		0.3429813980
	152		0.985797919	0.362703331		0.6464645240
	153		0.795391931	0.997434160		0.5387677967
##	154	В	0.714235280	0.453379164	0.704967833	0.4907447178

##	155	В	0.615768994	0.904433306	0.616898296	0.4293661080
##	156	В	0.644145445	1.767016228	0.725544827	0.5626372560
##	157	В	1.136193111	0.127876174	1.089346091	0.7288709908
##	158	М	0.056752903	2.520323146	0.058027125	0.0451814766
##	159	В	0.805891218	0.151126388	0.845714475	0.6564101320
##	160	В	0.263900997	0.439429036	0.197539148	0.1886823929
##	161	В	0.493750253	0.981159011	0.499197887	0.3858895928
##	162	В		1.002084203		0.5319479512
	163	В	0.661171316	0.453379164		0.5720145436
	164	В		0.041850384		0.1665178950
	165		0.164583418	0.209251922		0.1253146616
	166	M	0.380244448	0.704481470		0.3066088885
	167	В		0.076725705		0.0346675481
	168	M	0.541990220	2.376171823		0.3892995155
	169	В		0.430128950		0.4106115328
	170		0.567529027	0.020925192		0.3898678360
	171		0.939828068	0.639380872		0.6092395338
	172		0.014188226	1.174135783		0.0230169787
	173	М	0.170258708	0.016275149		0.1417959549
	174	В		0.048825448		0.4282294671
	175	M		0.202276858		0.0355200288
	176	В		0.655656021		0.6322565125
	177	М		0.950933733		0.2781928655
	178	В	1.268711139	1.883267296		0.7945120040
	179	M		0.567305210		0.1997646419
	180	В	0.039727032	0.351078224		0.0372249902
	181	В	0.408620899	0.416178822		0.3321833092
	182	М		0.125551153		0.5899166381
	183	В	0.127694031	0.181351666		0.0772915826
	184	М		2.438947399		0.5316637909
	185	В	0.422809125	0.306902819		0.3429813980
	186	В	0.002837645	0.146476345		0.0000000000
	187	M		0.918383434		0.0375091504
	188	M		0.181351666		0.4964279224
	189	М		1.029984459		0.2602907710
	190	В	0.209985740	0.283652605		0.1398068333
##	191	ľΊ	0.780352412	0.320852947	0.80908/425	0.6566942923

##	192	В	0.385919738	0.811432452	0.428413026	0.2924008770
##	193	В	0.425646770	0.058125534	0.394255215	0.3202485796
##	194	М	0.087966999	0.006975064	0.081484898	0.0647885325
##	195	М	0.357543287	2.515673104	0.317297256	0.2946741588
##	196	М	0.303628029	1.174135783	0.275320187	0.2273281843
##	197	М	0.726437154	0.616130658	0.686860078	0.5975889644
##	198	В	0.070941128	0.227852093	0.192189129	0.0520013221
	199	В	0.076616419	0.962558840		0.0562637256
	200	В	0.062428193	0.546380018		0.0514330017
	201		0.519289059	0.897458242		0.4120323340
	202		0.227011611	0.788182239		0.1733377405
	203		0.698628232	1.260161573		0.4827882313
	204	В	0.190122224	0.499879591		0.1443533970
	205	В		1.785616399		0.2864335122
	206	М	0.005675290	0.769582068		0.0085248069
	207	В		1.041609566		0.7589919752
	208	M	0.096479935	0.158101452		0.0951936772
	209	В		0.013950128		0.5907691188
	210	M	1.001688732	1.420588047		0.8206547452
	211	В	1.118032182	0.588230402		0.9706913468
	212	M		0.186001708		0.1960705589
	213	М		0.093000854		0.4779575074
	214	В	0.942665713	0.441754057		0.6177643407
	215	В	0.218498675	0.018600171		0.1716327791
	216	В	0.059590548	1.743766015		0.0485913994
	217	В	0.516451414	0.402228694		0.4208413011
	218	В	0.192959869	2.680749620		0.1588455687
	219	М		0.899783264		0.1758951826
	220	М		0.841657730		0.5370628353
	221	В	0.659468729	0.027900256		0.4631811754
	222	В	0.102155225	0.360378310		0.0863847100
	223	M		1.057884716		0.5524074877
	224	В	0.019863516	2.924876862		0.0198912161
	225	В	0.550503156	1.202036039		0.3887311951
	226	В	0.005675290	0.104625961		0.0207436968
	227	В	0.187284579	0.685881299		0.1577089278
##	228	ľΊ	0.693804235	2.513348082	0.6/9040820	0.4759683858

##	229	М	0.187284579	1.550789242	0.183135251	0.1400909935
##	230	В	0.096479935	0.248777285	0.126342746	0.0508646812
##	231	В	0.858955182	0.820732538	0.781102712	0.5612164549
##	232	В	0.028376451	0.378978481	0.012346197	0.0170496138
##	233	В	0.011350581	0.148801367	0.004526939	0.0088089671
##	234	М	0.119181096	0.055800512	0.100415733	0.0980352795
##	235	В	0.073778773	1.060209737	0.026750093	0.0537062835
##	236	В		1.866992146	0.679863899	0.5973048041
	237	M		0.020925192		0.0127872104
	238		0.246875127	0.750981897		0.1756110223
	239		0.192959869	0.571955253		0.1480474800
	240		0.468211447	0.513829719		0.3813430291
	241	M	0.479562027	1.325262171		0.3529270061
	242	В		0.283652605		0.1909556748
	243	В		0.188326730		0.3910044769
	244	M		0.283652605		0.3526428458
	245	M		0.392928609		1.0269550724
	246	В	0.283764513	2.785375581		0.2057320067
	247	В	0.408620899	0.244127242		0.3222377012
	248	В	0.419971480	0.246452263		0.3327516297
	249	В	0.476724382	0.285977626		0.3927094383
	250	В	0.167421063	0.318527925		0.1426484356
	251	В	0.684723771	0.592880445		0.4657386175
	252	M		0.397578651		0.4694327005
	253	В	0.332004481	0.232502135		0.2702363790
	254	М		0.637055851		0.2401153946
	255	В	1.126545118	0.306902819		0.9380129203
	256	В	0.224173966	1.527539029		0.1565722869
	257	В	0.747151964	0.344103160		0.5080784918
	258	В	0.195797514	0.762607004		0.1528782039
	259	В	0.249712772	2.252945691		0.1781684644
	260	В		0.562655167		0.2929691975
	261	В		0.167401537		0.0988877602
	262	В		0.783532196		0.0883738316
	263	М		0.465004271		0.1665178950
	264	В	0.629957220	0.197626815		0.5194449010
##	265	I۱	0.700614583	0.476629377	0.39201/443	0.4495414844

##	266	Μ	0.297952739	1.002084203	0.300835660	0.2173825762
##	267	В	0.831997553	1.050909651	0.686860078	0.5958840030
##	268	В	0.224173966	0.574280274	0.191366049	0.1602663699
##	269	В	0.070941128	0.564980189	0.039096290	0.0900787930
##	270	М	0.754813605	0.104625961	0.687683157	0.6117969759
##	271	В	0.578879607	0.511504698	0.553521153	0.4168630579
##	272	М	0.056752903	0.404553715	0.050619407	0.0429081948
##	273	В	0.349030351	0.044175406	0.265443229	0.2469352401
##	274	В	0.541990220	1.048584630	0.487674770	0.4492573241
##	275	M	0.201472804	0.246452263		0.1648129336
	276		1.016444487	1.302011958		0.6646507787
	277		0.127694031	0.648680957		0.1096858489
	278		0.221336320	0.455704185		0.1579930881
	279	В	0.402945609	1.357812470		0.3262159444
	280	В		0.774232110		0.2497768424
	281	M	0.765029128	1.150885570		0.5242756249
	282	В		1.483363623		0.3739548631
	283	В	0.048239967	0.125551153		0.0352358686
	284	В	0.087966999	0.223202050		0.0744499803
	285	M		0.448729121		0.3659983766
	286	В	0.093642289	0.964883861		0.0750183008
	287	M		0.878858071		0.0699034167
	288	M		0.513829719		0.5163191385
	289	M		1.499638773		0.2864335122
	290	В	1.001404967	0.683556278		0.6569784525
	291	В	0.229849256	1.122985313		0.1932289566
	292	В		0.571955253		0.2435253174
	293	M	00000_	0.372003416		0.3623042937
	294	В	0.056752903	0.067425619		0.0267110616
	295		0.283764513	0.365028352		0.2242024217
	296		0.553340801	0.281327584		0.3813430291
	297		0.522126704	0.327828011		0.4341968319
	298		0.161745773	0.934658584		0.1392385129
	299		0.786027702	0.551030061		0.6586834139
	300		0.235524546	0.239477199		0.1858407906
	301		0.045402322	2.499397954		0.0241536196
##	302	В	0.042564677	1.239236381	0.02345///4	0.0301209844

##	303	В	0.783190057	0.397578651	0.775752694	0.6504427672
##	304	M	0.652658381	1.511263879	0.662579224	0.5180240999
##	305	M	0.651523323	0.155776431	0.558871172	0.4432899593
##	306	М	0.153232837	0.074400683	0.184369871	0.1062759261
##	307	М	0.718775512	0.255752349	0.686860078	0.4810832699
##	308	В	0.272413933	0.732381726	0.241985456	0.2281806649
##	309	В	0.351867996	0.053475491	0.304127979	0.2637006937
##	310	В	1.022119777	0.834682666	0.967941823	0.6723231049
	311		0.192959869	0.192976772		0.0986035999
	312		0.659468729	0.467329292		0.4549405287
	313		0.462536157	0.657981043		0.3412764366
	314		0.164583418	0.183676687		0.1409434742
	315		0.278089223	3.817685061		0.2034587249
	316		0.593067833	0.132526217		0.4950071212
	317		0.740625380	0.625430744		0.6316881920
	318	M	0.249712772	0.390603587		0.1750427019
	319	В		0.983484032		0.3139970545
	320	В		1.197385997		0.2017537635
	321		0.488074963	0.560330146		0.3546319674
	322	M	0.076616419	0.281327584		0.0667776541
	323	M		1.662390267		0.7882604789
	324	В		0.920708456		0.8948205653
	325	В	0.190122224	0.274352520		0.1528782039
	326	M	0.119181096	1.529864050		0.1079808875
	327	В		0.348753203		0.1773159837
	328	M		0.165076516		0.4890397564
	329	В	0.073778773	0.783532196		0.0494438801
	330		1.279494190	1.871642189		0.8183814633
	331	В	0.12.7.007.0.7	0.065100598		0.1219047388
	332	В		0.385953545		0.1378177117
	333	В		0.316202904		0.1403751538
	334	В		0.399903673		0.1128116114
	335	M		0.769582068		0.3591785311
	336	В		1.057884716		0.1301453855
	337	В		0.811432452		0.5700254220
	338	В	0.20.0000	0.234827157		0.0869530305
##	339	ľΊ	0.212823385	0.318527925	0.204123/86	0.1571406074

##	340	В	0.922234668	0.378978481	0.800033547	0.6058296110
##	341	В	0.158908127	0.337128096	0.151858220	0.1085492080
##	342	М	0.524964350	2.269220840	0.543232656	0.4035075270
##	343	М	0.042564677	0.641705893	0.005761558	0.0258585810
##	344	В	0.184446934	0.925358498	0.183135251	0.1594138892
##	345	М	0.300790384	0.771907089	0.285608684	0.2097102500
##	346	В	0.127694031	0.039525363	0.094242635	0.1008768818
##	347	В	0.286602158	1.827466783	0.243631615	0.2259073831
##	348		0.198635159	0.246452263		0.1449217175
	349		0.706573638	0.792832281		0.5617847753
	350		0.317816255	0.623105723		0.2435253174
	351		0.737787735	0.062775577		0.6149227384
	352		0.000000000	0.506854655		0.0014208012
	353		0.624281929	2.232020499		0.5333687523
	354		0.187284579	0.946283691		0.1318503469
	355	M	0.275251578	0.192976772		0.2242024217
	356	В		0.623105723		0.3887311951
	357	В		0.792832281		0.5279697079
	358	В		0.532429890		0.9496634897
	359	M	0.926491136	0.051150470		1.1025416936
	360	В		0.823057559		0.7359749965
	361	M		0.558005125		0.8951047255
	362	М		1.318287107		0.9885934413
	363	В	0.574623139	0.885833135		0.5671838197
	364	В	1.292547358	0.234827157		1.2096701005
	365	В	0.078035241	0.434778993		0.1378177117
	366	В	0.458279689	0.034875320		0.5626372560
	367	М		0.618455680		0.1298612253
	368	В	0.307884497	0.625430744		0.3605993323
	369	В		1.302011958		1.0116104199
	370	М		0.769582068		0.8013318495
	371	В		0.251102306		1.5512306973
	372	В		0.088350811		0.2614274119
	373		2.385040734	0.930008541		3.0632472828
	374	В		1.053234673		1.0033697732
	375	В	1.692655322	1.211336125		2.1397265343
##	376	R	1.965069255	0.292952690	2.14000/431	2.3556883093

## 377	B 0.588811365	0.762607004	0.535001858 0.6052612906
## 378	B 0.495169076	0.778882153	0.580271246 0.4887555961
## 379	B 0.041145854	0.748656876	0.078192579 0.1494682811
## 380	B 0.026957629	0.953258755	0.012346197 0.0454656369
## 381	B 1.102425134	0.027900256	1.153134774 1.0485512499
## 382	B 0.563272559	1.674015374	0.481501672 0.6467486842
## 383	M 1.091074554	0.148801367	1.061772918 1.0593493386
## 384	M 0.279508046	0.669606150	0.181077552 0.3097346510
## 385	B 0.188703401	0.186001708	0.148154361 0.1696436575
## 386	B 1.088236908	0.367353374	0.946541749 1.3412362871
## 387	M 0.486656140	0.483604441	0.584386645 0.4927338394
## 388	B 0.881088814	0.385953545	0.816083603 0.9152801019
## 389	M 0.367475045	1.383387705	0.345693508 0.3944143997
## 390	B 2.240320832	0.802132367	2.358123574 2.6881557788
## 391	M 0.750557138	0.309227840	0.800856627 0.7032965700
## 392	B 0.378825625	1.009059267	0.296308721 0.4120323340
## 393	B 1.020133425	0.267377456	0.847772175 1.0050747346
## 394	M 0.015607048	0.920708456	0.074077180 0.0090931274
## 395	B 0.815822976	0.288302648	0.811145125 0.8220755463
## 396	B 0.520707882	0.346428182	0.485617071 0.5322321114
## 397	B 0.702317170	0.023250214	0.637886831 0.8467974863
## 398	M 0.923653491	0.158101452	0.843656776 1.0172936245
## 399	M 1.244307391	0.978833990	1.098811508 1.7447438141
## 400	B 1.196067424	1.371762598	1.110746165 1.1417558054
## 401	B 0.773258299	0.425478908	0.832545199 0.7595602956
## 402	B 0.475305560	0.592880445	0.378616699 0.5853700745
## 403	M 0.866900588	0.253427327	0.840775997 0.8587322160
## 404	M 0.688128945	0.248777285	0.497963268 0.7018757689
## 405	B 1.201742714	0.216226986	1.144080896 1.5543564598
## 406	M 0.191541046	0.018600171	0.172846754 0.0778599031
## 407	B 0.075197596	0.106950982	0.098769574 0.0380774709
## 408	B 0.364637400	0.281327584	0.325116514 0.4603395731
## 409	M 0.188703401	2.576123659	0.353924306 0.1960705589
## 410	B 0.795959460	1.578689499	0.699617814 0.9348871577
## 411	B 0.872575878	0.160426473	0.731717926 0.8135507394
## 412	B 0.778933589	0.016275149	0.690975476 0.8161081815
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##	414	В	1.808998772	0.025575235	1.740813738	1.5938547318
##	415	В	1.635902419	0.378978481	1.559736186	2.1312017274
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##	418	В	1.179041553	0.651005979	1.161365571	1.1292527553
##	419	М	0.949192297	0.427803929	0.949834068	0.9448327658
##	420	М	1.025808716	0.146476345	0.987695738	1.0062113756
##	421	В		0.425478908	1.167127130	1.0417314043
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##	423	В	0.375987980	0.897458242		0.4091907317
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	428		0.804472395	0.418503843		0.9718279877
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	434	M	0.0020020	0.869557986		0.6626616571
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	436	В	1.579149516	0.771907089		1.4233585937
	437	M		1.188085911		1.0769672729
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	447		0.954867587	1.025334417		0.9365921191
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## 525	B 0.631376042	0.406878737	0.604963639 0.6876677574
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## 528	M 0.424227947	0.118576089	0.390962896 0.5058052100
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_				
UO	1.220324001	U.U/UU388294	U.U430328895	0.110003/220
	31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61	30 0.274457113 31 1.598392718 32 0.657701630 33 1.076497587 34 0.444392993 35 0.501275296 36 0.007821317 37 0.606507557 38 1.211593057 39 0.694675127 40 0.135806499 41 0.742314056 42 0.448659166 43 1.036679975 44 0.312852667 45 0.770755207 46 0.706762616 47 0.634237680 48 0.880253641 49 1.159687955 50 0.216152752 51 0.666233975 52 0.200510119 53 0.553891427 54 0.708184674 55 0.351248222 56 1.595548603 57 2.342128831 58 1.508092062 59 0.051905102 60 0.120163865 61 0.597264183 </th <th>30 0.274457113 0.4612521851 31 1.598392718 0.4184594947 32 0.657701630 0.6996415534 33 1.076497587 0.7462212076 34 0.444392993 0.4943881180 35 0.501275296 0.6496536319 36 0.007821317 0.2455845994 37 0.606507557 0.5417251649 38 1.211593057 1.4808921757 39 0.694675127 0.4036903361 40 0.135806499 0.5366127638 41 0.742314056 0.4962815999 42 0.448659166 0.4799976557 43 1.036679975 0.7600436253 44 0.312852667 0.0301063618 45 0.770755207 0.3643059131 46 0.706762616 0.0384376821 47 0.634237680 2.3083437558 48 0.880253641 0.2484248222 49 1.159687955 0.0579405454 50 0.216152752 0.3627911276<!--</th--><th>30 0.274457113 0.4612521851 0.0036377408 31 1.598392718 0.4184594947 0.1862774164 32 0.657701630 0.6996415534 0.2935280500 33 1.076497587 0.7462212076 0.6110150136 34 0.444392993 0.4943881180 0.3914961727 35 0.501275296 0.6496536319 0.3507283880 36 0.007821317 0.2455845994 0.1073760730 37 0.606507557 0.5417251649 0.9183413908 38 1.211593057 1.4808921757 1.0011313536 39 0.694675127 0.4036903361 0.3784504816 40 0.135806499 0.5366127638 0.4452218410 41 0.742314056 0.4962815999 0.2083547398 42 0.448659166 0.4799976557 0.0194430973 43 1.036679975 0.7600436253 0.2837437817 44 0.312852667 0.0301063618 0.096588290 45 0.770755207 0.3643059131 0.0615907148 </th></th>	30 0.274457113 0.4612521851 31 1.598392718 0.4184594947 32 0.657701630 0.6996415534 33 1.076497587 0.7462212076 34 0.444392993 0.4943881180 35 0.501275296 0.6496536319 36 0.007821317 0.2455845994 37 0.606507557 0.5417251649 38 1.211593057 1.4808921757 39 0.694675127 0.4036903361 40 0.135806499 0.5366127638 41 0.742314056 0.4962815999 42 0.448659166 0.4799976557 43 1.036679975 0.7600436253 44 0.312852667 0.0301063618 45 0.770755207 0.3643059131 46 0.706762616 0.0384376821 47 0.634237680 2.3083437558 48 0.880253641 0.2484248222 49 1.159687955 0.0579405454 50 0.216152752 0.3627911276 </th <th>30 0.274457113 0.4612521851 0.0036377408 31 1.598392718 0.4184594947 0.1862774164 32 0.657701630 0.6996415534 0.2935280500 33 1.076497587 0.7462212076 0.6110150136 34 0.444392993 0.4943881180 0.3914961727 35 0.501275296 0.6496536319 0.3507283880 36 0.007821317 0.2455845994 0.1073760730 37 0.606507557 0.5417251649 0.9183413908 38 1.211593057 1.4808921757 1.0011313536 39 0.694675127 0.4036903361 0.3784504816 40 0.135806499 0.5366127638 0.4452218410 41 0.742314056 0.4962815999 0.2083547398 42 0.448659166 0.4799976557 0.0194430973 43 1.036679975 0.7600436253 0.2837437817 44 0.312852667 0.0301063618 0.096588290 45 0.770755207 0.3643059131 0.0615907148 </th>	30 0.274457113 0.4612521851 0.0036377408 31 1.598392718 0.4184594947 0.1862774164 32 0.657701630 0.6996415534 0.2935280500 33 1.076497587 0.7462212076 0.6110150136 34 0.444392993 0.4943881180 0.3914961727 35 0.501275296 0.6496536319 0.3507283880 36 0.007821317 0.2455845994 0.1073760730 37 0.606507557 0.5417251649 0.9183413908 38 1.211593057 1.4808921757 1.0011313536 39 0.694675127 0.4036903361 0.3784504816 40 0.135806499 0.5366127638 0.4452218410 41 0.742314056 0.4962815999 0.2083547398 42 0.448659166 0.4799976557 0.0194430973 43 1.036679975 0.7600436253 0.2837437817 44 0.312852667 0.0301063618 0.096588290 45 0.770755207 0.3643059131 0.0615907148

##	66	0.500564268	0.3573000301	0.1280735637	0.0164936360
##	67	1.090718163	0.1842357866	0.2434777543	0.1105589040
##	68	1.240034208	1.0150956341	0.5944570210	0.1347839319
##	69	1.511647206	0.9817703530	0.4652545033	0.6040794196
##	70	0.538959822	0.0149585068	0.0556950659	0.1059200689
##	71	1.323224577	0.5689913039	0.0786504647	0.3193064850
##	72	0.984063844	0.1323543832	0.2005775009	0.0966423986
##	73	0.224685097	0.5398316830	0.8267706743	0.5275386399
##	74	1.339578239	0.7556886170	0.5602120818	0.0458729252
##	75	0.628549450	0.1755257700	0.2710744086	
##	76	0.784975783	0.2936790391	0.3529235764	
##	77	1.666651482	0.5000685636	0.4216016138	
##	78	0.233928472	1.0453913441	1.1917991468	
##	79	0.312141638	0.4852994050	0.2574015208	
##	80	1.240034208	1.0434978622		0.8398868722
##	81	0.206909378	0.2637620254	0.2871306438	0.3100288147
##	82	1.139068120	0.3485900135	0.2176372508	0.2657021679
##	83	0.000000000	0.3110990723	0.1407429368	
##	84	0.158559420	0.0312424510	0.0457853582	
##	85	0.013509547	0.7462212076	0.7461131802	
##	86	0.287966660	0.1234550184	0.0905672018	
##	87	2.036386452	0.6023165850	0.0444055255	
##	88	0.934291829	0.0191241670	0.4652545033	
##	89	0.167091765	0.4332286534	0.2178881295	
##	90	0.579488463	0.5260092653	0.2178881295	
##	91	0.706762616	0.3724478851	0.1700957418	
##	92	0.433727561	0.1777979482	0.2700708939	
##	93	1.080052731	0.7715938647	0.2969149122	
##	94	0.425906245	0.1351946060	0.1337183339	
##	95	0.401731266	0.6996415534		0.4385503192
##	96	1.190262193	0.1522359429		0.0971578247
##	97	0.283700487	0.3749094116	0.1486456151	
##	98	0.254548307	0.4799976557	0.3383098936	
##	99	0.226818184	1.7478731203		1.0973422221
##	100	0.720983192 0.802040474	0.2978446992	0.1253138983	
##	101 102	0.802040474	0.6583636485 0.5807308916	<pre>0.2147521460 0.2152539034</pre>	
##	107	0.004100009	0.700/200310	0.2132339034	0.31//002000

##	103	0.230373328	0.0319998437	0.1307077898	0.2680215855
##	104	1.223680546	0.4684474163	0.0561968233	0.0783447711
##	105	0.750846401	0.8105995914	0.6980699139	0.8360211762
##	106	0.236772587	0.3857022583	0.2768446181	0.0659745441
##	107	1.472540622	0.8355935522	0.4190802831	0.5146014441
##	108	0.590153895	0.0179880778	0.2527602653	0.5821738092
##	109	0.218996867	0.1834783938	0.7004532613	0.2935351787
##	110	0.804884589	0.2183184604	0.1038637716	0.2615787589
##	111	0.796352244	0.1382241770	0.0455344796	0.0520580387
##	112	0.610062701	0.3819152945	0.0225790808	
##	113	0.949223433	0.5227903461	0.1250630196	
##	114	0.755823603	0.6610145231	0.1663325617	0.1479272981
##	115	0.362624682	0.1056562887	0.0599600034	0.4543481300
##	116	0.086745512	0.2476674295	0.3319124874	0.1100434779
##	117	1.040946147	0.1420111407	0.4024595708	0.4086556039
##	118	0.396754064	0.5316897110	0.3102114819	0.2512702364
##	119	0.027730123	0.5377488530	0.3268949139	0.2414771400
##	120	0.145049873	0.4330393052	0.1383595894	
##	121	0.695386156	0.1931351514	0.2295539879	
##	122	0.072524936	0.2039279981	0.0761416779	
##	123	1.190262193	0.7291798707	0.0617161541	
##	124	0.688275868	0.0556683672	0.3926251268	
##	125	0.195532917	0.3381758632	0.0119167371	
	126	0.398887151	0.5152164186	0.3951339135	
	127	0.609351672	0.8636170839	0.8706744425	
	128	1.723533785	0.0469583505	0.0372554833	
	129	0.403864352	0.3169688661	0.0429002535	
	130	1.208748942	0.7412981547	0.4306583339	
	131	0.894474217	0.3883531329	0.9333941113	
##	132	0.506963527	0.1980582043	0.1716010139	
##	133	0.706762616	0.5985296212	0.1763677087	
##	134	1.609769179	0.1007332358	0.3292782613	
##	135	1.545776588	0.6894167513	0.0214501267	
##	136	0.103099174	0.6723754144	0.1698448631	
	137 138	0.420218014	0.1635968341 0.3285191056	0.3036886364 0.1692176665	
	138	0.206909378 1.382239966	0.3285191056	0.1106374958	
##	138	1.302533300	0.34/0/32200	0.11003/4938	0.020001300

##	140	0.201932176	0.6110266016	0.4652545033	0.6040794196
##	141	1.183151905	0.3184836516	0.4652545033	0.6040794196
##	142	2.470114013	2.7476315512	1.0249648277	1.2097051175
##	143	0.547492168	0.5814882843	0.4530404750	0.5282860078
##	144	0.199799090	0.1978688561	0.4328911541	0.0842721716
##	145	0.280145343	0.5600919391	0.2007029402	0.0747367883
##	146	0.880964670	2.8025425256	3.3016888057	1.4055670454
##	147	0.568823031	0.6239022783	0.2147521460	0.2177675382
##	148	1.567107451	0.3283297574	0.0715004224	0.2030778936
##	149	0.912960965	0.0195028633	0.1435026022	
##	150	0.413107726	0.0558577154	0.1668343190	
##	151	1.154710754	0.2950044764	0.1407429368	
##	152	1.723533785	0.1272419821	0.0530608398	0.1082394864
##	153	0.787108870	0.2794779250	0.0032614228	
##	154	0.415951842	0.4731811210	0.1721027712	
##	155	0.681876609	0.6848723948	0.4342709869	0.4711252504
##	156	0.169935881	0.9033802033	0.8004284134	
##	157	0.338449704	0.3003062256	0.2660568351	
##	158	0.454347396	0.2043066945	0.0434020108	
##	159	0.573800233	1.1571067748	0.5032626226	
##	160	0.505541469	0.6837363057	0.7979196266	
##	161	2.420341998	0.4214890657	0.8016828068	
##	162	0.969843268	0.2594070171	0.2084801791	
##	163	0.489187807	0.0513133589	0.6407441366	
##	164	0.155004276	0.4195955839	0.1161568266	
##	165	0.536826736	0.4345540907	0.0070246029	
##	166	0.499853239	0.1136089126	0.3706732427	
##	167	0.863188950	0.4220571103	0.1347218486	
##	168	0.032707324	0.0244259162	0.2872560832	
##	169	0.771466236	0.4171340574	<pre>0.0895636871 0.2590322322</pre>	
##	170 171	0.726671422 0.502697354	0.3071227604 1.4733182482	0.6142764364	
##	171	0.628549450	0.4409919291	0.2502514786	
##	172	0.733781710	0.2586496243	0.4617422018	
##	173	0.733070682	0.4105068709	0.1289516391	
##	174	0.068258764	0.1325437314	0.0422730568	
	175	0.363335711	0.1545081211	0.3907435367	
77-11	1/0	0.50555711	0.1343001211	0.030/4000/	0.0/103/3331

##	177	1.169642358	0.6252277157	0.4652545033	0.6040794196
##	178	0.695386156	0.5019620455	0.4652545033	0.6040794196
##	179	0.401731266	0.5900089528	0.4016943909	0.4581107407
##	180	0.490609865	0.3285191056	0.3710495607	0.3853325717
##	181	0.246726990	0.1702240207	0.1249375803	0.3574480183
##	182	0.309297523	0.1573483439	0.1860265377	0.1151977391
##	183	1.197372481	1.1003023185	0.5403926665	0.7035566619
##	184	0.677610436	0.4843526640	0.4652545033	0.6040794196
##	185	0.550336283	0.2186971568	0.1446315563	0.0806641887
##	186	0.110209462	0.0670292584	0.0856750676	0.0816950410
##	187	1.368019390	0.2802353177	0.0090316323	0.1170017306
##	188	1.777571973	0.4372049653	0.1547921426	0.2499816711
##	189	1.109915940	0.7216059432	0.4264937479	0.4342980537
##	190	0.570956118	0.2474780813	0.0518064464	0.0118548009
##	191	0.666945004	0.7840908451	0.6699715023	0.3138945107
##	192	1.019615284	0.8314278920	0.5206986905	0.5430014236
##	193	0.621439162	0.0810410243	0.1052436043	0.2102938594
##	194	2.256805377	0.0604020719	0.2784753295	1.3040280985
##	195	1.108493882	0.5307429700	0.3058211051	
##	196	0.348404107	0.1259165448	0.1398648615	0.0224210365
##	197	0.142916787	0.0475263951	0.1127699645	0.3051322665
	198	0.311430610	1.4354486107	1.4715288697	0.6447980835
##	199	0.492031922	0.0605914201	0.0477923876	
##	200	0.817683108	0.7831441042	0.3331668807	
	201	0.004266173	0.1105793416	0.2818621916	
	202	1.616879466	0.0113608913	0.0718767405	
	203	0.123719009	0.6488962391	0.4652545033	
	204	0.042661727	0.0670292584	0.2398400135	
	205	0.368312913	0.3395013005	0.1477675397	
##	206	0.954200635	0.8174161261	0.3243861271	
##	207	0.635659737	0.2459632958	0.2738340740	
##	208	1.166087214	0.9238298076	0.4502770463	
##	209	1.126269602	1.2498873868	3.4609967644	
	210	0.962732980	1.0340304528	1.0287280079	
	211 212	0.297921063 0.366890855	0.1840464384 1.0832609816	0.2246618537	
	212	0.300890855	0.1656796642	1.4765464432 0.0783995860	
##	213	0.9200/1233	0.1030/90042	0.0703993000	0.140000000000

##	214	0.556735542	0.0319998437	0.1269446097	0.0095353833
##	215	1.311137087	0.3705544033	0.2104872085	0.1244754094
##	216	0.870299238	0.3198090890	0.2172609328	0.4973862115
##	217	0.789241956	0.3688502696	0.2034626056	0.0793756234
##	218	0.677610436	0.3228386600	0.3118421933	0.0002577131
##	219	0.225396126	0.1806381710	0.1786256168	0.1146823130
##	220	0.969843268	0.0462009578	0.1928002619	0.2164789729
##	221	1.289806223	0.0562364117	0.2449830264	0.1010235207
##	222	0.145760902	0.1191000100	0.1304569111	
##	223	0.116608721	0.3643059131	0.0360010899	
##	224	0.979086643	0.7821973632	0.4652545033	
##	225	0.654146486	0.0024615264	0.2240346570	
##	226	0.976953556	0.0893723446	0.1529105526	
##	227	0.645614141	0.6950971969	0.3798303143	0.0644282657
##	228	0.776443438	0.5496777888	0.2719524840	0.3352846949
##	229	0.340582790	0.2953831728	0.2937789287	0.3745343944
##	230	1.780416088	0.6288253312	0.2783498902	0.2409617139
##	231	0.963444009	0.2313834853	0.2858762504	
##	232	0.542514966	0.6299614204	0.3679637530	
##	233	0.007821317	0.0585085900	0.0994733947	0.2105515724
##	234	0.350537193	0.3974418459	0.0932014279	0.0185553405
##	235	1.211593057	0.6600677822	0.3752768664	
##	236	0.569534060	0.0596446791	0.0496739777	
##	237	0.955622693	1.0302434891	0.2738340740	
##	238	0.215441723	0.6924463223	0.4466016738	
##	239	0.749424344	0.0528281444	0.0776469500	
##	240	0.278723285	0.2270284770	0.2969149122	
##	241	0.763644920	0.1386028734	0.1522833559	
##	242	1.005394708	0.1836677420	0.0743855272	
##	243	0.141494729	0.1016799768	0.0814101301	
##	244	1.140490178	0.1611353077	0.1771203447	
##	245	0.249571105	0.1546974693		0.5718652867
##	246	1.156843840	0.7519016532	0.4652545033	
##	247	0.989041046	0.2783418359	0.2323136533	
##	248	0.142916787	0.0518814034	0.2454847837	
##	249	1.457609018 1.282695936	0.5108614103	0.2087310578 0.4249884759	
##	250	1.282093930	0.7859843270	U.4249884/59	U.3348302245

##	251	0.827637511	0.4218677621	0.3795919796	0.3995325615
##	252	0.295787976	0.1685198870	0.1729808466	0.0185553405
##	253	1.394327455	0.0386270303	0.5498006168	0.1175171567
##	254	0.563134801	0.8901258302	0.8016828068	0.1260216878
##	255	0.571667146	1.2972244337	0.3690425313	0.7867979812
##	256	0.211175550	0.1598098704	0.0247115495	0.0719019446
##	257	0.435149619	0.6517364619	0.2580287175	0.1744717436
##	258	0.224685097	1.1230241010	1.2582819957	0.4216185710
##	259	1.559286135	0.7036178654	0.2604120649	0.5235440874
##	260	0.912249936	0.4525421685	0.1828905543	0.4011303825
##	261	1.019615284	0.2715253011	0.0146764025	0.0659745441
		0.898029361	0.6038313705	0.1836431903	
##	263	0.400309208	0.1211828401	0.0258405036	0.1368456364
	264	0.479944433	0.7310733526	0.5391382731	0.4842428453
		1.168931329	1.6020750158	4.6877934864	1.4207721161
			0.4574652214	0.2166337361	
			2.8139034169		
		0.012087489	0.1185319655	0.3100860426	0.0043811221
		1.780416088		0.3183650389	
##	201	0.49338/000	0.111904//89	0.144/309930	0.0423220354
	#######################################	## 254 ## 255 ## 256 ## 257 ## 258 ## 260 ## 261 ## 262 ## 263 ## 264 ## 265 ## 266 ## 267 ## 268 ## 270 ## 271 ## 272 ## 273 ## 274 ## 275 ## 275 ## 276 ## 277 ## 278 ## 279 ## 280	## 252	## 252	## 252

##	288	0.635659737	0.5076424911	0.5993491552	0.8215892447
##	289	2.726084378	0.5568730199	0.3973918216	1.0854874212
##	290	0.044083785	0.6159496545	0.4652545033	0.6040794196
##	291	2.008656329	1.0586457172	0.4452469289	0.5563509603
##	292	0.774310351	0.0852066844	0.0204466120	0.0695825270
##	293	0.184156456	0.1535613802	0.3329160021	0.3479899489
##	294	1.040946147	1.0662196447	0.5057714093	0.1172594436
##	295	0.401731266	0.4313351715	0.4469278160	0.5200391897
##	296	1.090718163	0.6780558600	0.3784504816	
##	297	0.439415792	0.3093949386	0.0219518841	
##	298	0.232506414	0.1757151182	0.0748872846	
##	299	0.465723857	0.4122110045	0.2210241129	
##	300	0.066125677	0.7125172302	0.1438789203	
##	301	0.230373328	0.2895133789	0.1683395911	
##	302	1.522312638	0.6061035487	0.5311101555	
##	303	0.059726418	0.4343647425		0.6378398308
##	304	1.375129678	0.6553340775	0.6438801200	
##	305	0.442970936	1.0245630434	1.1742376395	
##	306	1.077208616	0.7382685837	0.3610645894	
##	307	0.092433743	0.2406615465	0.0954593359	
##	308	1.237901122	0.4267908150	0.2394636955	
##	309	0.434438590	0.4209210212	0.1949327307	
##	310	2.384790559	0.2715253011	0.0889364904	
	311	2.207033361	1.7194708922	0.1399903008	
	312	0.692542041	0.4105068709	0.3066991805	
	313	0.002133086	1.7175774103	2.3947623946	
	314	1.901290982	1.3824311181	0.8142267405	
	315	0.921493311	0.7488720822	0.4029487843	
##	316	1.882093205	0.9190961029	0.3743109835	
##	317	0.429461389	0.4758319956	0.0367537259	
	318	1.190262193	0.9791194784	0.1077523910	
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	320	0.671211177	1.3824311181	0.6266949308	
	321	0.526161304	0.4924946361	0.3294037006	
	322	0.632104594 2.711152773	0.5777013206	0.5388873944	
	323 324	1.865739543	0.5996657103 0.0073845793	<pre>0.4652545033 0.4652545033</pre>	
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##	325	0.248149047	0.2480461258	0.0239589135	0.1878728229
##	326	0.834036770	0.000000000	0.2168846148	0.0793756234
##	327	0.258103450	0.4773467811	0.1643255323	0.0440689338
##	328	0.543937024	0.3978205423	0.2797297229	0.4554047535
##	329	0.334894560	0.4887076724	0.3593837023	0.3729108021
##	330	0.290099746	0.8446822652	0.6953102485	0.2525588017
##	331	0.839013971	0.5693700003	0.2893885519	0.1311759490
##	332	0.025597036	0.1401176589	0.2666840318	0.1891613882
##	333	0.318540898	0.3892998738	0.0844206742	0.0170090622
	334	0.186289543	0.4309564751	0.2666840318	
	335	0.356936452	0.5019620455	0.0026342261	
	336	0.066125677	0.0007573928	0.0610889574	
	337	3.294907409	0.8939127940	0.0472906303	0.0198439058
	338	0.485632663	0.6273105457	0.4419227865	0.5287241200
	339	0.692542041	0.0783901497	0.3068246198	0.2644136026
	340	0.274457113	0.9279954677	0.6966900812	0.0092776703
	341	0.426617273	0.0800942834	0.1280735637	0.1450924544
	342	0.606507557	0.7064580882	0.0944558212	
	343	0.877409526	0.2959512173	0.3616416104	
	344	1.084318903	0.1490170237	0.3031868790	
	345	1.281273878	0.2773950949	0.0998497128	
	346	1.176041617	0.4135364419	0.1973160781	
	347	0.202643205	0.4400451881	0.1175366594	
	348	0.191266744	0.2912175126	0.1343455306	
	349	0.877409526	2.0508302206	1.3536158923	
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	352	0.286544602	0.1863186167	0.2151284640	
	353	1.479650910	0.4366369208	0.0292273657	
	354	1.609769179	0.2470993849	0.0114149797	
	355	1.144756351	0.2906494681	0.1442552383	
	356	0.573089204	0.3086375459	0.0160562352	
	357	1.360909102	0.3243534455	0.3996497297	
	358	2.140196655	0.8416526942	0.0558205052	
	359	0.447948137	0.6068609415	0.8460883323	
	360 361	0.071102879 0.412396698	0.6369673033	0.1774966627 0.9652557030	
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##	363	0.426617273	0.7072154809	0.2126196773	0.0316987067
##	364	0.828348539	1.4151883546	1.3075796554	1.5266921849
##	365	0.661967803	1.2885144170	0.7808598767	0.3587365836
##	366	0.861055864	0.5576304127	0.5437795286	0.1744717436
##	367	0.963444009	0.7674282046	0.8420742735	0.5288272052
##	368	0.312852667	0.9060310780	0.5450339220	0.1092703387
##	369	0.156426334	0.4459149819	0.0068991636	0.1816877094
##	370	0.696808213	0.6485175427	1.2474942127	1.0906416824
##	371	2.865446020	2.8695717840	1.1295812353	0.4875931151
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	373	0.903006562	1.9682744108		2.7065025871
##	374	0.028441152	0.3663887431	0.6565494931	
##	375	0.846124259	1.4399929672	2.5207034896	1.9514033127
##	376	3.021872354	2.9225892766	3.4552265549	2.9616385195
##	377	0.106654318	0.2243776024	0.1411192548	0.2154481206
##	378	0.809861791	1.6407020461	0.7444824688	0.3435315129
##	379	0.191977773	0.5292281845	0.8097109244	0.4643989394
##	380	0.113764606	0.3360930331	0.2113652839	0.5234152309
##	381	1.463297248	1.3640643439	1.5084080350	1.7001330763
##	382	0.362624682	1.5365605429	0.7068506675	0.2907003350
##	383	0.042661727	0.1297035085	0.5651042160	
##	384	1.160398984	0.9026228106	0.8738104259	0.7252045592
	385	0.099544030	0.0369228966	0.3919979301	
##	386	0.563134801	0.5708847858	0.5224548412	
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##	388	0.376845258	2.0629485046	0.5864289034	
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##	391	0.250993163	1.1427163125	0.9709004732	
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##	401	1.093562278	1.2495086904	0.8460883323	0.8651427523
##	402	1.424190665	0.9859360132	0.7355762758	0.7733969019
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##	404	0.194110859	1.7069739118	1.5297327224	0.2791032472
##	405	0.625705334	0.3114777687	1.1609410697	1.3560861373
##	406	0.703918501	0.2527798305	0.0144255238	0.1396804801
##	407	0.689697925	0.5065064020	0.0068991636	0.3365732602
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##	409	1.151866638	2.7502824258	1.8659101472	1.5674108489
##	410	0.312852667	0.5481630033	0.0921979132	
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	414	1.457609018	0.1997623380	0.5889376902	
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	428	1.564263336	0.8844453846	0.4497000254	
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	432	0.014220576	0.6562808184	0.3493485553	
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##	439	0.348404107	0.9590485705	0.2239092177	0.1762757351
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##	442	0.910116850	0.6030739777	0.8573778727	0.5133644214
##	443	0.789241956	0.3133712506	0.7770966966	1.0210591554
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##	446	0.156426334	1.2430708520	0.2301811845	0.0644282657
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	454	1.784682261	1.1521837219	0.4333929115	0.1868419706
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	458	0.853234547	0.3644952613	2.1167888224	1.8869750470
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	464	0.106654318	0.5349086301	1.5033904614	
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## 4	175 G	0.184867485	1.4456734128	1.3001787345	0.2064281634
## 4	176 G	0.756534632	0.0198815597	0.0119167371	0.3922392818
## 4	177 G	0.099544030	0.5349086301	0.3104623606	0.0708710923
## 4	178 G	0.135095470	0.2130167111	0.6633232174	0.6365512655
## 4	179 G	0.135095470	0.0085206684	0.5851745100	0.4643989394
## 4	180 6	0.505541469	0.6788132528	0.5475427087	0.9643622816
## 4	181 6	0.433727561	0.0236685235	0.2076021038	0.6726310943
## 4			0.0198815597	0.0608380787	0.0141742185
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## 3	JU 9 C	7.70000004	0.3044332013	0.0055445050	0.21/2321121

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##	514	0.827637511	1.1652487469	1.2395915344	1.3643329553
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	522	0.290099746	0.0482837879	0.1210489608	0.0471614905
	523	0.228951270	0.4042583807	0.6353502451	0.5661955993
##	524	0.085323455	0.0558577154	0.5375075617	1.0478613140
##	525	0.085323455	0.0104141503	0.4296297314	0.4077020656
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##	527	0.440837849	1.2582187070	2.6611955477	2.1292253261
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	534	0.995440305	0.6769197709	0.1963125634	
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	540	0.149316046	0.0653251247	0.4308841247	
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	542	1.670917654	0.4383410544	0.6504029656	
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	545 546	1.936131393	1.1593789531	0.2979184269 1.4407962320	
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           0.895896274
                           0.3057973231
                                           0.3242606878 0.5082101601
## 558
           1.350954699
                           1.6340748595
                                          1.3107156389 1.5176722277
## 559
          1.292650339
                           1.2332247462
                                          0.9836952857 0.7813860069
## 560
           0.276590199
                           0.4402345363
                                           0.3506029487 0.0613357090
## 561
           0.049772015
                           0.5027194382
                                          1.2939067676 0.7375747862
## 562
           1.029569687
                           1.1230241010
                                          1.0267209785 0.8344748978
## 563
           1.052322608
                           1.0442552550
                                          1.3189946351 1.6524561597
          1.877116003
## 564
                           4.0340631382
                                          2.8104683595 1.9101692226
## 565
           1.166087214
                           2.0307593127
                                           0.9527117693 0.0219056104
## 566
          1.030991744
                           1.4456734128
                                          1.6263210123 1.8019297362
## 567
           0.282278429
                           0.4269801632
                                           0.2439795117 0.7808705808
## 568
           0.826926482
                           0.5140803295
                                          1.2242879352 1.3826305828
## 569
           0.149316046
                           0.3626017794
                                          0.5249636280 1.0107506329
```

```
#install.packages("car")
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
```

```
#leveneTest() produces a two-sided test
# Leverne test is used to verify Homoscedasticity. It tests if the variance of two samples are # #equal. Levene's
test is an inferential statistic used to assess the equality of variances for a #variable calculated for two or
more groups.[1] Some common statistical procedures assume that #variances of the populations from which differen
t samples are drawn are equal. Levene's test #assesses this assumption.
leveneTest(radius mean ~ diagnosis, data=cancer)
## Levene's Test for Homogeneity of Variance (center = median)
         Df F value
                       Pr(>F)
## group 1 90.477 < 2.2e-16 ***
        567
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
leveneTest(texture mean ~ diagnosis, data=cancer)
## Levene's Test for Homogeneity of Variance (center = median)
         Df F value Pr(>F)
## group 1 0.684 0.4086
##
        567
leveneTest(perimeter mean ~ diagnosis, data=cancer)
## Levene's Test for Homogeneity of Variance (center = median)
##
         Df F value
                       Pr(>F)
## group 1 91.237 < 2.2e-16 ***
        567
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
leveneTest(area mean ~ diagnosis, data=cancer)
```

```
## Levene's Test for Homogeneity of Variance (center = median)
         Df F value
                     Pr(>F)
## group 1 170.21 < 2.2e-16 ***
        567
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
leveneTest(smoothness mean ~ diagnosis, data=cancer)
## Levene's Test for Homogeneity of Variance (center = median)
         Df F value Pr(>F)
##
## group 1 0.8377 0.3604
##
        567
leveneTest(compactness mean~ diagnosis, data=cancer)
## Levene's Test for Homogeneity of Variance (center = median)
                      Pr(>F)
         Df F value
## group 1 39.892 5.428e-10 ***
        567
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
leveneTest(concavity mean~ diagnosis, data=cancer)
## Levene's Test for Homogeneity of Variance (center = median)
         Df F value Pr(>F)
## group 1 70.484 3.723e-16 ***
        567
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

```
leveneTest(points_mean ~ diagnosis, data=cancer)
## Levene's Test for Homogeneity of Variance (center = median)
         Df F value Pr(>F)
## group 1 94.906 < 2.2e-16 ***
##
        567
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
leveneTest(symmetry mean ~ diagnosis, data=cancer)
## Levene's Test for Homogeneity of Variance (center = median)
         Df F value Pr(>F)
## group 1 2.036 0.1542
##
        567
leveneTest(dimension mean ~ diagnosis, data=cancer)
## Levene's Test for Homogeneity of Variance (center = median)
##
         Df F value Pr(>F)
## group 1 6.113 0.01371 *
##
        567
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```