

log_reg.R

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```
##### Logistic Regression #####
#install.packages("cowplot",
#lib="/Library/Frameworks/R.framework/Versions/3.5/Resources/Library")
library(cowplot)

##
## *****

## Note: As of version 1.0.0, cowplot does not change the
## default ggplot2 theme anymore. To recover the previous
## behavior, execute:
## theme_set(theme_cowplot())

## *****

library(dplyr)

##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
## filter, lag

## The following objects are masked from 'package:base':
##
## intersect, setdiff, setequal, union

library(ggplot2)
data <- read.csv("C:/Users/saiprasad/Desktop/Fall 2019/Multi
analysis/MVA/Project/Dataset/HCV-EGY-Data.csv")
attach(data)
Survivorship = data$Survivorship <- if_else( RNA.EOT >= 400000 , 'NC', 'C')
cbind(data.frame(Survivorship),data)

##      Survivorship Age Gender BMI Fever Nausea.Vomting Headache Diarrhea
## 1                C  56     1  35     2             1         1         1
## 2                C  46     1  29     1             2         2         1
## 3               NC  57     1  33     2             2         2         2
## 4               NC  49     2  33     1             2         1         2
## 5                C  59     1  32     1             1         2         1
## 6                C  58     2  22     2             2         2         1
```

## 7	C	42	2	26	1	1	2	2
## 8	C	48	2	30	1	1	2	2
## 9	C	44	1	23	1	1	2	2
## 10	C	45	1	30	2	1	2	2
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## 393	NC	47	2	28	1	1	1	2
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## 792	NC	41	2	28	1	2	2	1
## 793	C	38	1	34	1	2	1	1
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## 797	NC	38	1	28	1	2	1	1
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## 800	NC	32	1	31	1	1	1	2
## 801	NC	42	2	33	2	2	2	2
## 802	C	33	2	30	1	1	2	1
## 803	C	37	1	33	1	2	2	1
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## 805	C	38	1	35	1	2	1	2
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## 810	C	38	2	25	2	1	1	2
## 811	C	47	1	34	1	1	2	2
## 812	C	42	2	28	1	1	1	1
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## 828	NC	37	1	22	2	2	2	1
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## 830	C	34	2	31	2	1	1	1
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## 835	C	32	2	24	1	2	1	1
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## 892	C	50	2	23	1	1	1	2
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## 1002	NC	60	2	22	2	1	2	2
## 1003	C	38	1	32	2	2	2	2
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## 1154	C	61	1	24	2	1	2	1
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##	Fatigue...generalized.bone.ache	Jaundice	Epigastric.pain	WBC
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##	RBC	HGB	Plat	AST.1	ALT.1	ALT4	ALT.12	ALT.24	ALT.36	ALT.48	
## 1	4248807	14	112132	99	84	52	109	81	5	5	
## 2	4429425	10	129367	91	123	95	75	113	57	123	
## 3	4621191	12	151522	113	49	95	107	116	5	5	
## 4	4794631	10	146457	43	64	109	80	88	48	77	
## 5	4606375	11	187684	99	104	67	48	120	94	90	
## 6	3882456	15	131228	66	104	121	96	65	73	114	
## 7	4747333	12	177261	78	57	113	118	107	84	80	
## 8	4405941	11	216176	119	112	80	127	45	96	53	
## 9	4608464	12	148889	93	83	55	102	97	122	39	
## 10	4455329	12	98200	55	68	72	127	81	125	43	
## 11	4265042	12	166027	103	124	111	74	53	123	101	
## 12	4130219	13	144266	75	49	93	52	46	46	59	
## 13	4116937	13	203003	97	101	66	53	95	55	104	
## 14	4321603	14	141110	120	61	64	51	78	90	113	
## 15	4165603	14	222874	127	122	106	105	88	111	111	
## 16	4896464	11	149506	117	53	50	80	120	66	86	
## 17	4165219	10	197640	86	105	70	86	83	87	47	
## 18	4466885	14	163276	53	101	50	95	112	97	68	
## 19	4448466	15	190642	53	124	62	76	57	46	93	
## 20	4436025	10	111819	115	121	63	127	95	124	93	
## 21	4031637	15	116558	86	109	118	119	55	103	84	
## 22	4994729	10	109023	84	77	67	81	117	68	42	
## 23	4595487	14	94733	45	92	103	104	40	115	93	
## 24	4625248	10	211363	70	102	76	58	111	95	58	
## 25	4300774	11	222135	62	91	116	128	41	70	106	
## 26	4529290	15	109871	48	112	99	85	59	87	78	
## 27	4052583	15	94503	41	54	128	64	71	89	87	
## 28	4906158	12	190314	61	120	113	75	88	114	99	
## 29	4763261	13	126721	51	118	98	42	93	53	83	
## 30	4753531	15	104729	120	72	117	126	45	95	49	
## 31	3999388	15	182262	96	49	59	88	62	58	81	
## 32	3998925	10	201114	57	110	128	96	69	105	72	
## 33	4599496	11	167354	94	64	54	122	64	64	96	
## 34	4581099	13	125642	42	47	82	102	48	76	53	

## 35	4075477	11	118742	42	118	67	111	48	107	101
## 36	4152639	14	120812	128	102	79	63	80	86	127
## 37	4023215	14	222471	52	126	67	126	126	41	54
## 38	4911615	10	171725	40	43	46	64	101	45	91
## 39	4354206	14	95604	69	58	62	50	60	84	114
## 40	3939529	14	196433	78	81	90	48	68	83	128
## 41	3889649	14	182897	106	69	127	99	47	103	111
## 42	4308638	11	184113	93	56	40	124	101	50	90
## 43	4797923	14	101512	127	92	94	113	96	126	108
## 44	4735873	14	177677	80	48	76	120	82	111	101
## 45	3902488	14	97785	88	89	47	48	63	57	114
## 46	4570417	10	209827	105	116	106	111	84	107	71
## 47	4212499	12	150344	114	68	127	47	117	128	53
## 48	4281958	10	186992	113	40	42	42	78	106	57
## 49	4972412	10	189400	125	48	118	59	70	105	110
## 50	4327627	12	138099	100	109	123	85	95	90	72
## 51	4679591	15	123295	84	71	62	117	82	116	105
## 52	4054154	14	175906	70	58	100	112	80	76	101
## 53	4143165	13	120871	115	93	109	48	56	76	100
## 54	4421722	12	212279	84	41	85	97	44	89	125
## 55	3939606	14	197798	55	84	124	59	113	44	67
## 56	4003477	14	217699	49	54	127	60	39	110	46
## 57	4651439	10	184013	82	75	53	75	95	96	44
## 58	4149153	15	120975	40	67	40	122	71	117	111
## 59	4616230	11	138648	75	46	56	120	84	91	56
## 60	4116304	13	130342	79	63	110	54	41	102	41
## 61	4844053	10	165099	73	73	60	82	107	79	42
## 62	4434372	13	138252	78	63	58	105	113	57	89
## 63	3961979	13	125625	109	89	42	60	42	72	55
## 64	4097792	15	163795	104	126	107	74	103	97	114
## 65	3878997	15	177809	121	65	71	44	100	128	110
## 66	4731084	13	219590	98	86	53	118	128	103	119
## 67	4656201	15	199042	89	98	44	59	124	41	45
## 68	4489031	14	170489	70	103	52	90	119	41	57
## 69	4872198	10	217563	106	127	94	89	98	80	61
## 70	3977714	14	203489	119	44	57	112	109	104	56
## 71	4316260	15	112273	107	127	98	116	91	114	76
## 72	4588105	15	162564	57	78	116	114	40	56	95
## 73	4602228	13	159896	92	61	66	80	83	80	106
## 74	4479247	12	151526	71	113	83	94	45	49	128
## 75	4622035	14	101254	95	127	57	124	87	120	75
## 76	4330272	15	151597	39	101	91	113	95	110	44
## 77	4194696	15	172915	79	62	104	58	94	115	89
## 78	4818572	14	135689	101	63	88	73	120	39	102
## 79	4470537	11	220661	83	55	127	55	46	110	121
## 80	4306848	14	223196	119	101	59	108	67	43	68
## 81	4680049	15	115867	108	63	100	51	96	86	101
## 82	4314617	11	113281	42	101	85	75	64	117	125
## 83	4752903	15	132694	66	69	96	109	114	95	50
## 84	4852636	12	103575	59	105	122	94	126	82	71

## 85	4217730	10	125068	60	94	63	93	70	89	43
## 86	4503431	10	113199	65	128	81	106	126	103	78
## 87	3892146	12	151419	109	67	59	93	115	128	91
## 88	3954021	11	106309	95	61	93	97	86	119	39
## 89	4946479	14	161613	83	108	104	110	61	69	70
## 90	4057999	13	127765	48	45	122	52	71	95	63
## 91	3986814	12	212852	118	96	123	39	70	71	63
## 92	3861675	13	156095	85	70	42	63	72	128	79
## 93	4127397	10	99699	88	108	124	119	116	113	87
## 94	4008145	11	131295	113	51	74	115	88	102	93
## 95	4136958	12	142869	110	107	64	117	93	55	59
## 96	4830312	13	197486	68	81	62	93	61	99	43
## 97	4322008	10	219360	104	70	61	64	118	99	62
## 98	3944957	11	192455	51	47	69	46	77	79	42
## 99	4622950	13	103521	52	76	107	112	123	84	120
## 100	4372638	12	213687	105	128	69	64	50	77	64
## 101	4753125	10	206409	77	80	85	110	46	99	125
## 102	4542344	11	180872	97	96	75	86	58	104	111
## 103	3916999	13	166734	109	99	53	46	53	92	119
## 104	4358100	13	127465	110	86	97	112	108	87	128
## 105	4863975	11	164733	117	85	47	87	126	98	118
## 106	4944654	11	225389	70	100	56	45	97	126	101
## 107	4751440	13	189785	47	114	51	82	106	93	114
## 108	4302555	15	221984	106	68	124	127	101	121	39
## 109	4121374	14	220201	70	111	75	59	48	104	84
## 110	4766331	11	186633	114	102	45	62	65	42	66
## 111	4152861	11	209054	69	92	42	101	107	78	112
## 112	4232027	14	202185	64	64	102	63	108	125	94
## 113	4461091	13	205459	108	63	48	47	107	94	88
## 114	4261488	12	174553	106	122	95	53	126	111	108
## 115	4624822	13	97537	110	105	42	42	91	84	120
## 116	4270519	14	164140	107	39	39	83	103	52	103
## 117	4035603	13	171910	52	93	82	94	88	53	110
## 118	3967189	13	153780	109	68	122	101	97	50	118
## 119	4247913	15	187079	87	117	126	109	105	58	115
## 120	4057386	15	192554	75	41	119	91	58	41	122
## 121	4473562	13	217716	128	40	103	85	114	65	82
## 122	4341068	11	155605	117	64	120	56	52	106	53
## 123	4150332	10	189911	92	106	111	61	75	127	48
## 124	4711166	13	161317	40	61	88	64	120	106	49
## 125	4035033	11	222975	128	127	42	72	121	105	98
## 126	5018034	15	204596	123	127	44	78	72	125	73
## 127	4787266	15	222316	59	59	81	52	101	99	46
## 128	4133201	10	213350	82	115	74	78	44	116	124
## 129	4613449	12	137042	116	45	42	118	101	73	110
## 130	4706874	14	115724	97	122	108	103	93	111	91
## 131	3850422	12	204574	68	40	64	67	84	80	68
## 132	4686353	14	150033	78	126	64	80	125	95	59
## 133	3871675	12	135903	114	41	41	124	106	73	74
## 134	4030932	10	219621	50	68	84	119	75	48	76

## 135	4511343	12	154247	78	125	88	48	81	75	123
## 136	4065063	13	176936	88	57	110	47	80	123	80
## 137	4551539	10	196565	83	119	125	54	122	126	62
## 138	3966645	14	156808	93	118	127	84	94	57	65
## 139	3904490	11	140997	62	110	117	78	83	81	47
## 140	4259591	14	111018	115	61	39	115	40	43	68
## 141	4685008	14	153657	42	73	58	54	47	100	80
## 142	4412655	13	166614	54	51	85	56	68	105	98
## 143	4963498	11	149698	93	87	118	118	92	95	128
## 144	4633099	10	214890	85	117	60	123	122	73	59
## 145	4383899	14	105645	127	115	104	59	42	73	50
## 146	4760400	12	148040	96	95	93	80	120	123	64
## 147	4601724	14	129472	41	58	120	58	41	114	104
## 148	4182026	12	122120	60	71	75	90	71	117	114
## 149	4163583	10	194984	128	122	114	115	96	66	56
## 150	4360235	14	97735	103	126	120	75	39	95	110
## 151	4048698	12	157581	43	85	61	43	112	95	72
## 152	5010655	12	222021	56	73	43	121	72	116	61
## 153	4808183	14	167031	66	124	119	80	113	89	78
## 154	3901541	12	94794	124	84	39	90	104	81	78
## 155	4621540	14	185645	93	123	123	86	42	114	114
## 156	4153369	10	208635	44	109	114	81	76	65	98
## 157	4127797	12	180182	127	128	98	44	67	54	108
## 158	4523001	11	163863	77	62	122	100	104	64	39
## 159	4527245	14	130738	120	41	75	90	46	109	72
## 160	4562544	11	181604	55	106	39	87	41	73	43
## 161	4553378	13	154821	96	125	96	110	127	123	92
## 162	4368190	15	94167	113	123	91	70	120	86	68
## 163	4679689	15	120161	66	77	114	62	128	117	123
## 164	4828742	12	131376	83	104	116	109	60	53	84
## 165	4782262	13	196623	90	119	117	57	77	115	99
## 166	4706596	12	93755	128	105	84	127	45	39	98
## 167	4853667	13	166407	86	73	39	39	47	60	96
## 168	4324296	10	160568	118	108	45	97	118	61	56
## 169	4930579	14	219575	61	128	126	55	70	85	123
## 170	4343675	15	209330	89	75	101	118	81	65	104
## 171	3938997	11	173434	57	39	122	60	53	64	107
## 172	4614988	13	220628	71	51	123	103	122	78	120
## 173	4673174	14	181210	57	78	127	49	91	101	63
## 174	4483772	12	155738	93	79	102	79	90	90	80
## 175	4997621	10	150714	40	85	56	67	47	102	60
## 176	4766748	14	98201	47	90	50	50	117	43	71
## 177	4019273	13	110154	46	47	47	117	115	74	124
## 178	4171468	11	94252	81	99	63	68	119	76	46
## 179	4537995	13	175333	74	52	74	43	49	79	79
## 180	4242616	10	125473	113	70	91	43	118	96	44
## 181	4044641	15	165374	122	115	96	97	117	72	65
## 182	4842331	10	179346	117	116	107	102	39	98	62
## 183	4876785	11	128030	67	52	49	57	104	111	60
## 184	3964906	11	212871	123	120	118	68	42	58	106

## 185	4183592	12	110861	98	113	51	67	51	57	126
## 186	3857371	10	102771	124	88	48	101	127	77	66
## 187	3821231	10	136094	56	77	114	97	126	57	112
## 188	4746390	10	124479	67	104	93	108	94	52	106
## 189	4779175	10	159045	78	81	61	86	51	49	82
## 190	4694155	11	189845	61	97	49	88	112	75	73
## 191	4593035	13	112819	53	47	73	110	42	45	98
## 192	4197614	14	214565	52	89	64	115	82	104	100
## 193	4010824	15	183696	39	102	125	48	81	50	109
## 194	4931701	11	175746	40	86	115	122	39	108	108
## 195	4653695	14	135012	49	55	95	39	126	67	45
## 196	4025569	15	198432	54	127	81	68	101	110	125
## 197	4015138	13	118420	98	109	97	74	68	103	66
## 198	4404883	12	100862	90	52	58	126	39	87	128
## 199	3940425	15	97541	99	40	50	69	122	80	53
## 200	4044419	12	217018	112	115	119	123	106	119	97
## 201	4979484	13	113557	99	112	108	107	71	71	66
## 202	4333464	14	176048	90	101	45	122	84	73	81
## 203	4766961	11	210409	46	120	69	48	81	84	48
## 204	4669353	14	109331	124	39	127	56	126	51	120
## 205	4083545	10	208754	103	112	53	67	52	39	128
## 206	4757654	10	215749	53	116	41	60	88	49	44
## 207	4965747	13	109039	96	86	82	123	97	123	82
## 208	3844696	10	135467	69	110	45	97	120	72	48
## 209	4550405	15	150016	45	72	93	118	126	60	74
## 210	4349115	13	167928	107	127	48	125	44	77	77
## 211	4537003	12	186747	76	103	101	47	79	55	40
## 212	3951975	14	158680	90	78	86	96	43	64	86
## 213	3995156	14	138206	41	49	118	68	106	85	126
## 214	4492980	12	183155	98	51	89	92	42	104	101
## 215	4830356	14	199182	78	82	67	112	62	101	98
## 216	4591254	13	130036	127	120	47	91	100	104	109
## 217	4184650	12	204123	99	95	54	48	66	80	78
## 218	4024690	12	105173	100	100	68	79	108	125	50
## 219	4361113	14	209110	83	92	84	74	42	43	67
## 220	4533216	11	195413	82	67	103	123	122	50	122
## 221	4137761	12	110251	113	94	52	86	110	76	76
## 222	4676685	12	93242	89	48	119	117	67	103	58
## 223	4997222	13	155448	68	112	96	72	122	102	98
## 224	4677968	15	149067	71	71	67	105	51	67	83
## 225	4582863	13	97706	111	93	78	40	97	47	44
## 226	3899102	12	161399	99	92	67	52	59	60	76
## 227	3981364	15	118656	41	54	100	43	115	46	66
## 228	4144255	14	217810	95	75	73	93	43	90	127
## 229	4443767	15	101419	65	48	64	128	80	44	109
## 230	4401784	12	225228	127	80	66	41	49	108	42
## 231	4153369	10	219010	99	70	61	50	99	46	100
## 232	4030849	14	131136	117	42	52	119	124	62	78
## 233	4025356	15	191900	56	95	120	105	41	61	81
## 234	4506553	15	165628	104	76	114	76	80	52	44

##	235	4379233	15	108039	77	58	69	99	118	96	78
##	236	4598134	15	206520	123	62	122	46	57	116	60
##	237	4242488	14	212116	54	68	54	86	56	88	71
##	238	3891419	14	128885	68	98	106	67	46	124	47
##	239	3897503	14	126190	42	65	54	70	114	58	85
##	240	5012914	14	188339	91	109	84	84	52	103	91
##	241	3969417	13	152999	66	77	99	42	58	89	39
##	242	4645662	12	110752	116	57	98	108	115	41	48
##	243	4750314	12	189630	110	59	79	99	76	96	91
##	244	5017591	15	196715	102	122	93	53	47	45	124
##	245	3895740	10	199063	93	101	68	115	125	70	44
##	246	4919224	10	159069	108	100	91	98	92	43	109
##	247	4822838	13	97151	86	88	48	119	78	87	90
##	248	4603100	10	126799	83	109	113	43	126	119	104
##	249	4718925	15	188741	53	77	88	41	122	47	123
##	250	4511138	13	131284	84	126	112	47	55	101	88
##	251	4201245	13	181300	68	95	93	103	55	49	86
##	252	4590360	11	162297	111	127	71	42	83	110	100
##	253	5008980	15	202847	68	63	80	122	107	109	64
##	254	4775721	15	205031	99	57	76	88	71	107	69
##	255	4591064	15	219920	88	114	47	89	52	102	84
##	256	3910766	12	96765	114	127	123	68	58	65	56
##	257	4340278	14	176808	75	80	110	114	49	46	104
##	258	4656389	15	115714	51	101	85	58	55	88	46
##	259	4885943	13	212363	60	89	125	92	94	92	59
##	260	4392559	12	119431	111	58	53	104	66	127	116
##	261	3906089	11	178359	111	78	101	76	68	109	78
##	262	4356651	11	135360	86	59	77	69	102	41	49
##	263	3882329	10	184844	128	72	120	43	87	73	88
##	264	4878190	12	192995	43	121	74	42	40	60	71
##	265	4680569	13	150894	87	41	79	122	74	94	52
##	266	4079407	13	220182	113	81	41	95	78	46	114
##	267	3980091	11	183642	95	68	61	116	52	39	95
##	268	4133045	10	222555	83	47	125	73	122	120	67
##	269	4617224	15	108367	104	82	118	86	70	93	71
##	270	4358654	11	104641	115	50	86	117	121	105	80
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##	273	4597818	10	169421	96	113	50	113	63	76	46
##	274	4631847	15	112473	67	82	61	100	63	44	80
##	275	4275163	15	120046	100	109	87	44	100	57	123
##	276	4400232	11	125385	56	49	108	80	101	92	97
##	277	4587298	12	176769	113	121	113	102	107	126	117
##	278	4747682	14	102811	59	115	59	111	52	81	107
##	279	4361814	13	131531	120	79	83	100	122	43	73
##	280	4018659	13	152237	55	93	74	85	126	64	95
##	281	4097706	12	161937	54	55	113	81	69	42	105
##	282	4002769	15	148857	128	128	100	71	51	66	120
##	283	4940743	13	183372	63	80	53	64	104	62	105
##	284	4853740	14	116873	126	71	83	48	79	43	111

## 285	4002375	10	111481	65	70	62	120	108	40	50
## 286	4931105	14	164118	78	105	128	50	105	122	57
## 287	3831977	14	106999	101	52	64	88	66	76	78
## 288	4709031	12	93301	94	82	114	47	116	89	88
## 289	4897142	11	114599	86	87	51	80	123	67	107
## 290	4315483	14	109967	90	92	40	98	97	116	106
## 291	4039919	11	214425	105	45	105	68	128	128	82
## 292	4734198	12	167306	95	120	78	40	68	76	82
## 293	4566057	15	144324	125	55	109	84	107	57	84
## 294	4769697	14	149404	62	49	101	85	125	80	58
## 295	4876601	15	206801	101	45	93	124	61	93	107
## 296	3960875	12	221265	62	61	61	121	115	54	103
## 297	4056566	15	188476	69	67	115	114	113	115	89
## 298	4762129	10	100023	101	68	98	46	49	117	41
## 299	5006063	10	175489	90	106	98	128	63	95	128
## 300	3948742	13	128781	47	48	102	95	81	85	127
## 301	4737928	10	194538	48	81	70	39	59	100	59
## 302	4461632	15	184868	91	104	52	104	85	92	75
## 303	4774366	10	222051	71	68	51	82	104	89	101
## 304	4523904	11	179831	118	123	113	54	97	59	123
## 305	4074867	15	130827	119	95	119	73	114	108	80
## 306	4713255	10	103368	82	91	117	99	72	81	110
## 307	3959512	11	93948	59	46	44	121	112	65	49
## 308	4492698	11	95561	84	104	114	82	50	104	110
## 309	4758353	12	190574	97	105	116	41	72	47	124
## 310	4035850	12	203758	96	84	128	59	68	92	115
## 311	4842528	11	184346	91	74	87	106	86	112	43
## 312	4105398	11	126058	63	121	71	56	77	128	55
## 313	4226945	14	176380	56	99	47	65	88	59	115
## 314	4363217	12	199307	114	105	64	112	56	98	112
## 315	4778726	13	143830	44	120	60	53	116	39	111
## 316	3852147	12	96690	56	80	82	47	75	46	39
## 317	3823835	13	206072	121	74	115	75	43	95	119
## 318	4695086	13	141416	108	79	75	88	73	78	107
## 319	4244596	12	156370	102	74	88	111	92	59	96
## 320	4493135	15	181352	43	105	116	102	117	47	94
## 321	4352975	13	195465	66	117	55	115	84	59	73
## 322	4700801	11	132025	56	121	128	95	99	110	73
## 323	4537883	15	200350	85	77	61	87	101	49	40
## 324	4795712	11	195680	75	71	119	101	101	118	58
## 325	4540738	13	187357	71	82	91	66	47	114	86
## 326	4930753	12	97894	123	83	72	49	110	108	40
## 327	4266558	12	126763	75	123	120	81	57	47	91
## 328	4747742	15	221991	112	76	41	106	100	122	116
## 329	4515597	14	153799	46	43	128	92	84	105	104
## 330	4085732	12	169813	102	86	85	88	56	49	121
## 331	4040658	11	104962	104	126	121	53	90	81	69
## 332	4945416	14	102905	66	53	88	84	77	70	104
## 333	4015728	15	151167	121	79	116	92	70	101	89
## 334	3869809	15	216267	101	86	89	101	57	98	43

##	335	3998064	14	128692	84	112	127	90	82	53	125
##	336	3924863	12	132783	60	115	69	116	78	103	112
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##	338	4642662	10	148097	64	62	67	93	41	112	114
##	339	4698346	11	176285	69	88	88	124	67	119	71
##	340	4361799	14	109757	101	94	55	103	107	47	127
##	341	4144610	11	162680	112	64	73	40	115	92	125
##	342	4174646	12	191643	96	60	120	90	67	60	41
##	343	4725627	12	200905	119	122	44	72	51	127	72
##	344	4220383	12	146803	97	118	110	41	73	82	117
##	345	4075431	11	140704	105	103	98	73	73	108	123
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##	352	4530224	14	126543	63	72	97	54	90	83	64
##	353	4963502	13	102049	97	108	114	39	80	115	96
##	354	4399047	13	163145	102	55	40	58	123	82	59
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##	358	4775604	14	222418	45	67	115	84	111	64	62
##	359	4920879	10	124526	98	126	93	50	41	85	81
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##	361	4283351	14	198709	61	121	95	43	62	63	128
##	362	4660354	12	182047	86	83	69	62	43	63	74
##	363	4862376	14	104076	63	81	103	117	50	121	69
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##	365	4265969	11	215277	59	124	50	59	74	68	105
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##	369	4930045	10	209664	124	87	52	75	100	103	120
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##	372	4516593	11	176105	100	99	90	107	104	90	39
##	373	4624449	12	165170	68	104	118	89	44	53	128
##	374	4484538	15	185153	103	121	39	77	82	45	126
##	375	4634174	14	180027	84	84	84	44	109	51	90
##	376	4962886	11	199421	71	87	110	59	46	81	78
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##	378	4222342	15	108599	59	87	62	101	90	39	40
##	379	4747096	13	211312	96	61	67	97	112	127	57
##	380	4875799	14	217530	117	71	104	103	49	94	50
##	381	4082556	12	197434	115	75	68	45	118	48	68
##	382	4897095	15	125236	67	53	76	125	74	48	70
##	383	4462038	12	147519	76	75	116	108	94	51	49
##	384	3843878	14	101261	42	116	79	49	126	108	125

## 385	4279297	12	159150	109	97	123	128	124	89	75
## 386	4335281	13	154631	44	126	46	57	76	43	58
## 387	4155390	12	159529	77	65	65	73	96	128	90
## 388	4860218	14	108195	62	124	57	118	115	46	53
## 389	4686526	13	163302	92	84	51	87	43	120	107
## 390	4638244	15	105121	67	62	110	123	96	60	73
## 391	4462321	15	123958	85	104	69	77	61	80	69
## 392	4360420	10	215054	98	81	119	58	111	72	74
## 393	3992520	12	127572	98	112	115	65	97	93	106
## 394	4496695	14	96452	59	86	45	79	98	113	108
## 395	4341926	10	142858	95	42	46	119	69	73	46
## 396	4593420	12	167804	57	42	80	82	89	68	114
## 397	4115712	14	117174	71	106	115	101	94	105	91
## 398	4178124	11	214241	64	99	46	65	84	84	42
## 399	4847991	10	130284	55	99	125	127	104	51	65
## 400	3898575	14	119227	39	96	111	99	75	76	105
## 401	4679641	15	161236	125	78	72	115	118	84	64
## 402	4994056	11	188334	88	41	120	99	108	51	107
## 403	3834099	13	186850	67	106	40	93	51	47	110
## 404	4763214	10	95191	108	126	64	63	119	51	116
## 405	4400982	13	132792	128	63	100	49	122	68	128
## 406	3921586	12	105382	51	73	60	43	69	87	70
## 407	4334891	11	197637	87	55	50	79	125	87	43
## 408	4413566	15	163217	64	79	63	41	42	57	88
## 409	4744693	13	205688	61	126	57	51	66	83	128
## 410	4010770	15	100088	76	67	127	59	123	91	71
## 411	4486450	12	98457	55	70	99	113	79	68	100
## 412	4744028	12	188374	122	128	97	114	102	69	104
## 413	4959712	13	131756	63	117	65	86	49	85	95
## 414	4104366	14	199309	62	86	41	58	125	51	50
## 415	4795959	12	212935	121	61	49	46	125	75	105
## 416	4245364	12	200317	98	39	56	78	58	78	94
## 417	4620048	10	207943	52	126	71	67	49	125	91
## 418	4030882	14	171378	75	79	120	125	57	53	97
## 419	4449005	10	109164	71	54	119	79	101	44	127
## 420	4014324	15	182702	52	97	58	103	55	110	53
## 421	4693861	15	169257	128	60	124	77	99	99	44
## 422	4101378	13	168132	49	48	99	118	78	67	72
## 423	3821444	10	167031	67	110	65	74	62	54	116
## 424	4794748	14	209965	79	121	90	49	101	125	71
## 425	3908274	11	115504	54	55	44	61	57	67	79
## 426	4460732	11	131744	80	50	91	39	115	109	101
## 427	3889070	10	190629	54	63	87	75	117	70	120
## 428	3924294	13	152878	74	55	73	45	103	50	122
## 429	4532828	11	186671	119	108	79	80	88	79	64
## 430	3988575	11	186166	119	110	79	92	59	97	121
## 431	4214907	11	123837	94	48	89	63	63	47	123
## 432	4617482	12	129470	93	81	83	85	109	78	86
## 433	4541317	14	144574	124	70	75	105	76	44	125
## 434	4500189	15	190984	45	49	118	91	115	55	62

## 435	3952014	10	114735	83	77	128	98	115	87	110
## 436	4764936	15	214793	82	62	85	40	43	125	41
## 437	4508050	13	143134	66	84	88	116	41	95	86
## 438	4286411	11	190675	59	84	81	62	93	39	58
## 439	4829331	13	196735	44	99	66	73	66	83	79
## 440	4292911	10	120191	47	81	128	108	73	127	106
## 441	3974401	10	176965	73	80	128	50	70	58	123
## 442	4526584	13	226259	113	108	71	97	115	128	78
## 443	4996208	11	93786	89	86	91	104	42	76	123
## 444	4211274	10	202104	62	65	120	87	105	111	98
## 445	4174901	15	136526	103	67	104	103	75	53	122
## 446	4922858	14	171427	51	61	41	50	119	123	74
## 447	4778989	10	184414	50	92	44	80	62	64	107
## 448	4844461	10	123481	65	82	120	50	61	106	40
## 449	4814369	13	115611	76	92	57	89	115	44	85
## 450	4173775	12	168282	61	45	81	95	102	124	56
## 451	4426188	11	134399	62	69	69	102	51	127	101
## 452	4715347	15	125366	61	44	85	110	66	100	79
## 453	4677001	12	157697	90	53	103	56	66	106	121
## 454	4754510	11	135805	91	73	72	93	96	76	113
## 455	4067565	13	153733	107	67	63	63	91	99	61
## 456	4432153	12	131637	83	126	75	88	84	49	51
## 457	3858981	14	124945	87	93	40	94	39	120	117
## 458	4005663	10	183250	43	88	78	89	96	5	5
## 459	4367351	11	143639	54	78	83	68	106	86	85
## 460	4059834	15	118828	77	78	80	53	66	57	105
## 461	3834664	11	223137	42	72	44	108	39	80	86
## 462	4487234	11	165073	64	70	121	118	53	98	46
## 463	4413316	10	219963	110	50	49	61	106	86	43
## 464	4349483	13	95938	51	113	126	122	71	105	91
## 465	4380754	13	116249	66	57	63	43	77	58	89
## 466	4758398	11	215077	113	59	78	70	105	43	94
## 467	4858422	13	189224	53	50	50	118	65	123	39
## 468	4902831	13	215445	89	93	125	67	70	106	39
## 469	4795785	13	196161	91	125	78	43	64	45	101
## 470	4115067	11	209818	117	75	118	104	103	52	113
## 471	4733957	15	211245	109	91	65	60	69	39	39
## 472	4396919	14	162735	80	121	113	54	83	113	93
## 473	4412011	11	141043	56	61	117	120	43	69	68
## 474	4437775	11	221380	45	71	41	120	120	98	107
## 475	4227160	11	215535	52	78	72	90	82	85	62
## 476	4900120	14	190493	52	108	50	63	107	100	102
## 477	4983006	10	108574	76	96	120	122	78	84	73
## 478	4331628	13	106932	73	45	58	121	83	58	126
## 479	4089557	10	204436	101	46	41	103	97	53	107
## 480	4074879	11	226428	81	110	56	71	103	68	58
## 481	4263558	15	184850	116	65	77	58	105	107	99
## 482	4679901	12	200530	42	86	116	86	120	49	44
## 483	4568742	10	152535	51	88	74	118	58	113	128
## 484	3836618	12	148115	112	76	109	127	72	58	52

## 485	4511682	14	226129	79	128	118	46	104	61	61
## 486	4836276	15	200394	89	57	59	39	43	102	72
## 487	4742632	15	149356	63	128	120	80	68	126	48
## 488	4697603	13	224572	98	112	114	110	105	111	86
## 489	4669855	13	156632	93	95	53	42	83	87	95
## 490	4418442	12	208424	108	85	43	98	41	96	100
## 491	4916421	15	186598	44	79	40	128	104	65	61
## 492	4382530	12	155378	118	101	61	59	112	124	45
## 493	3818313	11	134458	52	112	110	123	62	101	124
## 494	4781106	13	177934	108	123	48	94	118	92	106
## 495	4688194	10	169395	115	58	61	95	73	104	41
## 496	4222948	10	97180	108	59	111	70	49	67	102
## 497	4526530	12	101536	69	86	64	87	41	69	77
## 498	4891054	14	196575	60	124	116	125	64	88	75
## 499	4671730	10	194572	101	61	90	68	64	80	96
## 500	3830006	15	198928	66	65	102	98	43	64	48
## 501	3823762	15	160631	65	119	98	101	40	122	73
## 502	4893839	12	177148	62	39	81	72	75	102	90
## 503	4174814	11	222739	123	125	42	84	97	106	42
## 504	4547371	10	101203	81	112	67	113	114	87	56
## 505	3879678	11	163943	102	69	124	74	114	65	40
## 506	4629458	10	203934	89	96	84	63	77	109	58
## 507	4092045	15	179347	110	115	85	107	113	65	83
## 508	4525070	14	170619	66	40	107	67	49	87	67
## 509	4221114	13	201680	108	78	121	54	100	47	84
## 510	3898204	10	104362	47	123	80	42	63	98	52
## 511	4147274	10	111405	45	56	103	93	92	52	104
## 512	4424925	15	202008	114	75	54	120	52	119	65
## 513	4901257	15	128216	123	83	90	108	69	83	95
## 514	4257606	15	133259	108	40	60	116	46	68	78
## 515	4564217	13	107505	62	107	104	121	73	120	73
## 516	4881728	15	155921	66	118	43	114	79	128	83
## 517	4195004	13	143012	116	44	76	70	73	108	89
## 518	4998371	12	218554	43	77	51	103	44	119	58
## 519	4900348	12	191152	84	54	60	109	119	100	99
## 520	4372402	14	100594	126	61	54	128	73	79	41
## 521	3885505	12	133436	95	119	63	87	86	42	119
## 522	3950566	12	111722	68	67	41	63	112	77	95
## 523	4479610	15	119555	119	57	94	127	124	77	106
## 524	4103541	15	130725	44	87	55	84	41	82	119
## 525	4168106	12	208870	86	46	62	123	84	97	108
## 526	4008184	12	191898	69	102	53	121	94	74	98
## 527	3915155	11	98107	112	97	79	87	76	57	44
## 528	4534600	14	153655	53	121	75	57	126	120	40
## 529	4874241	11	186724	92	123	82	88	48	99	53
## 530	4361055	11	199307	94	56	87	68	119	70	73
## 531	4861445	12	114091	55	112	91	84	74	55	101
## 532	4742766	14	208108	47	43	72	90	75	68	80
## 533	3864072	13	154397	102	73	49	77	60	90	107
## 534	4348954	14	166501	117	102	124	47	94	62	57

## 535	4173448	10	184030	89	41	71	100	59	58	107
## 536	4438011	11	139381	75	86	75	42	47	120	106
## 537	4060756	13	138189	71	67	48	49	66	94	42
## 538	4086105	10	110924	53	123	51	72	43	57	83
## 539	4328249	13	143623	121	97	56	68	86	51	60
## 540	4741776	10	206930	104	104	82	80	63	78	127
## 541	4300157	11	113820	107	64	112	71	82	114	79
## 542	4646359	11	151135	73	84	115	108	49	88	59
## 543	4868748	10	105734	88	73	45	43	41	84	93
## 544	4243083	13	197941	57	52	85	94	71	72	72
## 545	3835022	11	211897	48	72	112	49	101	57	61
## 546	3879617	15	185608	40	101	54	97	98	114	57
## 547	4157168	12	156184	123	63	58	105	65	70	86
## 548	4567452	10	151092	80	71	70	51	44	53	91
## 549	4790629	13	212007	68	39	108	109	57	45	47
## 550	4751380	11	142754	113	43	48	73	58	110	44
## 551	4445888	15	128363	56	56	81	119	126	109	55
## 552	5001181	15	165273	119	119	41	93	94	112	48
## 553	3816422	12	218079	39	78	60	54	98	53	78
## 554	4070443	10	196877	100	47	107	86	120	128	101
## 555	4834430	14	186684	45	48	90	63	112	43	103
## 556	4851709	12	137549	78	114	93	69	122	44	70
## 557	4377707	10	218636	80	107	66	62	88	62	102
## 558	4170689	12	186909	92	85	79	96	43	57	70
## 559	4119400	15	188807	62	50	101	62	114	119	71
## 560	4520559	10	93842	43	125	110	44	114	101	102
## 561	4291202	10	144290	58	101	61	120	83	116	80
## 562	4790593	11	107937	113	63	116	115	39	62	111
## 563	4636883	10	132883	128	67	90	107	102	67	93
## 564	3917330	10	180647	53	78	77	103	121	94	66
## 565	4181638	12	157064	105	92	118	98	51	113	127
## 566	4464879	15	158545	103	82	106	103	100	85	70
## 567	3928735	12	209650	117	56	68	66	41	49	72
## 568	4983657	11	114794	92	90	83	114	83	55	93
## 569	4869719	12	183970	56	68	89	74	49	117	56
## 570	4490714	11	100080	45	66	69	91	84	81	98
## 571	3875085	13	153216	118	127	45	107	125	101	70
## 572	4868830	11	139675	111	125	119	126	61	119	112
## 573	3855118	11	143321	91	73	128	108	72	86	87
## 574	4629128	10	146094	121	123	43	121	108	111	64
## 575	4128642	13	114267	79	71	91	82	110	74	59
## 576	4272180	12	98844	106	116	110	74	53	53	117
## 577	4323502	14	163309	121	44	63	48	127	79	45
## 578	4543927	15	173111	46	73	55	117	63	73	120
## 579	4301001	10	220553	111	64	92	66	54	45	93
## 580	4956297	10	136923	110	83	107	91	41	55	54
## 581	4865213	10	167052	53	100	51	82	113	116	52
## 582	4020535	14	219049	64	111	116	68	127	45	51
## 583	4573855	12	163145	58	49	125	44	107	95	92
## 584	4576112	14	140651	124	102	122	44	118	48	108

## 585	4255697	13	96213	47	68	62	121	101	41	116
## 586	3993009	14	184002	92	68	65	105	96	52	78
## 587	4304965	11	202909	64	117	61	89	48	110	42
## 588	3944473	12	171378	76	99	48	103	110	81	126
## 589	4770454	15	159135	90	74	41	120	111	50	51
## 590	4852548	12	128198	125	73	92	111	75	42	83
## 591	4676558	11	128806	55	107	65	65	82	80	94
## 592	4832627	12	121236	55	77	85	50	116	54	108
## 593	3928739	14	159474	105	102	66	56	62	110	55
## 594	4866498	14	155330	43	64	76	55	114	104	40
## 595	4052813	13	139949	91	111	64	127	104	103	51
## 596	4796181	14	203108	99	90	118	71	105	64	84
## 597	4233780	15	190039	44	74	43	122	115	68	52
## 598	4172862	13	188501	116	44	74	60	101	95	60
## 599	4410971	13	132190	126	70	121	68	113	45	68
## 600	3958209	13	107427	98	105	106	63	79	114	74
## 601	3932014	15	149153	79	64	86	123	54	105	39
## 602	4303543	15	184419	39	96	44	98	101	49	50
## 603	4956331	11	150509	88	96	75	122	52	102	90
## 604	4326485	10	147725	99	91	78	107	79	125	74
## 605	4326171	10	142356	96	80	111	108	100	95	44
## 606	4016426	13	222450	101	43	124	117	90	57	63
## 607	4735335	11	122606	102	99	95	86	64	118	73
## 608	4865465	14	176671	91	61	48	56	57	101	125
## 609	4209835	15	114612	69	57	85	78	93	122	49
## 610	4132934	15	118505	88	90	86	120	58	64	121
## 611	5003402	15	107249	51	88	62	122	69	114	105
## 612	4247603	14	188230	55	44	99	115	87	103	122
## 613	4439447	13	103368	61	73	109	115	122	120	101
## 614	5002053	12	150213	92	44	116	67	107	66	96
## 615	4899819	10	223337	119	86	86	45	76	67	83
## 616	4747397	14	157916	84	94	62	97	39	67	71
## 617	3912659	11	161907	76	77	47	121	85	125	50
## 618	3926263	13	129124	69	99	79	89	87	46	49
## 619	5000542	12	182437	109	89	113	126	72	65	49
## 620	4792061	15	109340	62	75	44	46	97	122	51
## 621	4213278	11	220312	67	122	127	112	82	113	85
## 622	4249123	11	105653	44	57	105	61	114	86	94
## 623	4028134	14	193292	49	61	122	95	64	121	112
## 624	4303500	14	213190	82	127	118	127	43	76	61
## 625	4823392	15	121695	127	90	109	61	77	95	99
## 626	3962499	12	148257	120	98	76	70	74	88	64
## 627	5011007	10	198179	82	63	68	89	89	99	85
## 628	4721279	14	130908	39	126	47	120	78	73	70
## 629	4765707	14	129438	81	48	111	89	84	65	88
## 630	4363398	13	126714	52	81	46	59	57	121	97
## 631	3840198	12	160031	112	70	120	99	72	83	118
## 632	3956599	10	147291	128	71	89	121	70	91	79
## 633	4780832	10	210702	64	69	60	96	46	72	110
## 634	3962443	12	167190	91	48	90	93	128	63	102

## 635	4237665	10	153380	54	109	64	72	112	48	91
## 636	4173625	11	143253	114	41	96	114	96	102	112
## 637	4817053	15	105837	98	118	78	104	71	63	66
## 638	4471566	14	169573	53	87	90	119	70	113	61
## 639	4874465	13	140297	89	89	63	120	70	51	54
## 640	4705610	13	172487	82	46	116	78	61	61	71
## 641	3892985	14	111072	71	108	70	105	71	49	100
## 642	4191832	11	94882	124	95	63	58	40	114	119
## 643	4674677	12	194510	89	80	81	114	44	100	116
## 644	4701915	12	154750	118	77	58	113	83	121	108
## 645	4430326	14	106803	126	61	114	118	118	72	58
## 646	4701383	12	161285	42	123	80	98	57	63	61
## 647	4499445	11	169626	93	104	124	82	113	54	63
## 648	3906321	14	147894	117	85	74	103	107	117	97
## 649	4551778	15	199959	40	91	103	113	47	75	62
## 650	5011388	12	175555	108	126	52	89	59	90	82
## 651	4724628	13	199651	112	119	57	114	89	117	76
## 652	4757897	15	122794	76	42	78	78	115	125	111
## 653	4142882	13	123988	112	81	110	71	41	96	41
## 654	4104537	14	106054	79	99	43	85	127	51	126
## 655	4102197	10	225941	86	71	40	60	112	82	49
## 656	4226557	12	220657	70	93	80	85	126	77	87
## 657	4596361	15	150874	65	47	99	117	103	51	66
## 658	4859750	10	195015	111	44	67	39	102	124	116
## 659	4146039	10	113211	96	63	122	85	74	118	115
## 660	4812232	11	176180	65	114	123	115	117	104	89
## 661	4397249	14	219897	85	93	100	91	82	82	52
## 662	4782939	12	160130	60	109	78	89	45	105	54
## 663	4286134	14	99930	72	107	41	52	99	114	121
## 664	3824632	12	222379	75	124	73	104	107	87	86
## 665	4914784	13	174436	110	89	50	93	110	47	47
## 666	4169770	12	144201	125	111	72	104	111	82	45
## 667	4724387	12	199530	78	112	57	109	93	68	51
## 668	4135975	11	134296	39	63	79	128	60	107	49
## 669	4468031	12	126179	55	127	45	60	42	92	114
## 670	4019035	13	223185	81	95	55	92	105	110	127
## 671	4483428	14	199402	93	126	56	89	81	125	100
## 672	4633627	15	147161	121	91	120	91	83	128	66
## 673	4980993	15	186805	111	40	118	125	126	56	100
## 674	4984251	13	102232	102	62	86	62	68	128	85
## 675	4586021	11	149943	124	54	98	126	93	89	100
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## 677	3989344	11	183563	82	126	55	96	102	75	111
## 678	4604716	14	95944	97	103	74	89	100	80	47
## 679	4450540	13	169589	87	46	106	44	86	89	90
## 680	4996904	15	199453	94	83	49	41	89	84	49
## 681	4611125	12	104125	52	118	53	85	115	58	78
## 682	4754111	15	205147	93	89	43	123	93	76	106
## 683	4814662	15	149869	75	108	57	118	117	81	71
## 684	4961625	14	188821	119	114	119	92	125	111	78

## 685	4476159	13	96575	121	62	110	57	116	77	84
## 686	4128566	14	219196	88	80	84	127	109	75	107
## 687	4213649	11	121425	76	93	66	118	46	100	58
## 688	4519900	11	134800	72	95	104	58	118	116	41
## 689	4072225	14	222603	39	115	83	109	106	59	70
## 690	4744577	14	131388	85	79	110	126	69	107	67
## 691	4046684	13	103682	120	103	117	128	52	107	107
## 692	4514691	13	193974	59	72	53	115	79	128	89
## 693	4926510	15	153215	69	94	55	112	123	75	62
## 694	4838185	14	105615	108	50	102	76	98	102	100
## 695	4140662	11	215007	48	122	69	77	92	121	126
## 696	4817428	10	186493	50	39	104	128	102	108	105
## 697	4595837	13	143198	67	126	67	79	87	54	60
## 698	4479868	13	105010	110	98	81	44	74	105	68
## 699	3913011	13	190686	117	91	120	107	92	120	90
## 700	4744241	14	220198	56	49	39	108	110	64	109
## 701	3927123	10	114430	52	106	59	89	75	58	42
## 702	4236185	11	153397	46	113	101	102	90	60	103
## 703	4712430	13	119429	128	125	120	47	55	80	110
## 704	4564360	12	163899	66	41	117	126	64	63	109
## 705	4435457	12	206895	76	114	107	124	110	63	127
## 706	4455474	14	110855	74	64	43	102	43	50	73
## 707	4009689	15	218231	92	52	40	47	89	57	123
## 708	3934642	10	165581	42	69	82	113	77	42	120
## 709	4152939	12	223312	57	102	97	44	51	127	86
## 710	3818404	15	148304	48	77	77	100	50	121	105
## 711	4664006	13	170592	112	101	55	86	125	125	120
## 712	4390784	15	150257	51	60	61	82	79	67	83
## 713	3942444	11	94713	48	65	90	128	50	51	52
## 714	4780000	14	190428	124	107	73	81	65	51	120
## 715	3854457	13	211004	59	45	125	89	124	117	71
## 716	4752357	13	169098	44	60	42	114	125	114	63
## 717	4630531	14	139642	78	126	47	73	68	108	92
## 718	3928123	12	209870	111	101	117	63	97	93	84
## 719	4883746	12	207806	61	57	98	54	86	103	103
## 720	5000305	14	119978	55	41	45	89	126	119	124
## 721	4579551	13	93708	49	52	56	121	74	109	124
## 722	4541840	15	181514	43	79	117	45	47	128	47
## 723	4338205	10	169826	116	43	107	119	80	122	62
## 724	4865680	15	203358	44	89	127	53	87	43	44
## 725	4910766	12	182923	113	63	93	64	89	108	90
## 726	4700973	12	225182	124	122	125	75	57	39	46
## 727	4116590	10	113569	93	55	119	84	108	96	90
## 728	3832765	11	100951	124	48	81	99	66	42	99
## 729	3924503	14	150372	121	102	72	115	40	39	65
## 730	4591821	13	101497	69	95	114	127	120	111	124
## 731	3885478	12	170691	78	109	71	108	43	61	79
## 732	4963489	12	219913	49	94	87	92	107	48	96
## 733	4717226	12	222288	123	96	77	68	107	43	121
## 734	4519841	15	121656	88	40	66	53	95	88	55

## 735	4079138	12	106662	39	58	54	74	101	43	67
## 736	4309574	12	137670	87	101	105	123	43	56	45
## 737	4646963	10	143397	58	59	108	66	114	109	51
## 738	4710249	11	138151	56	86	39	112	100	65	60
## 739	4076098	11	139155	94	118	78	39	73	66	125
## 740	4476246	11	186398	71	65	74	82	47	114	84
## 741	4579520	11	129160	89	61	81	122	45	40	128
## 742	4532298	11	159540	112	107	71	128	40	56	96
## 743	4622385	15	207082	109	64	90	84	123	56	99
## 744	3907038	14	145418	86	109	91	39	68	54	98
## 745	4042453	10	168536	76	83	96	89	46	90	109
## 746	4462322	12	179611	43	104	45	112	67	120	57
## 747	4912864	12	137062	122	104	95	102	55	53	52
## 748	4898857	14	189159	94	119	39	98	89	75	106
## 749	4844875	15	134856	112	53	114	93	118	75	52
## 750	4036992	12	191246	50	93	127	121	104	92	108
## 751	4746206	15	193758	42	63	57	108	72	43	125
## 752	4553103	14	179598	93	120	43	112	122	84	87
## 753	4349767	11	195697	63	50	68	114	70	103	89
## 754	4120854	13	183597	98	122	71	56	47	88	70
## 755	3886252	11	162964	112	89	86	116	113	123	123
## 756	4845491	12	140889	127	39	41	58	57	87	107
## 757	4368959	15	136177	120	122	44	116	92	62	70
## 758	4309060	11	205557	60	75	105	48	84	51	62
## 759	3928310	10	207865	92	74	95	57	98	122	106
## 760	4980035	14	209164	105	59	69	121	94	105	123
## 761	3822597	10	93785	57	83	58	69	111	82	50
## 762	4740445	12	182804	115	42	55	41	103	112	120
## 763	4871271	15	102952	67	93	51	79	77	106	92
## 764	4932450	15	134700	107	118	89	65	87	45	121
## 765	4094487	12	95975	79	106	42	82	114	65	48
## 766	3867490	12	102537	91	110	73	66	90	112	124
## 767	4542579	10	185343	105	119	108	89	115	104	70
## 768	4701615	15	118502	104	126	101	51	76	74	80
## 769	4573733	11	117709	41	48	90	85	126	55	69
## 770	4363173	11	225282	92	49	40	50	127	84	79
## 771	4717497	13	101546	93	117	90	56	60	113	78
## 772	4815699	11	116377	68	103	45	74	125	57	74
## 773	4194071	11	114518	122	86	128	53	55	97	60
## 774	4557994	11	149427	66	55	56	113	100	102	101
## 775	4418987	12	207239	89	65	107	105	74	41	61
## 776	3895241	13	161503	91	81	128	99	80	70	90
## 777	4977738	15	116254	60	124	50	59	97	86	68
## 778	4469165	14	181475	73	78	43	124	41	106	120
## 779	3845662	14	187063	90	124	65	73	76	74	76
## 780	3866293	15	116503	110	44	63	116	118	111	59
## 781	4194025	13	115822	111	41	100	116	90	113	119
## 782	4841479	15	130102	93	85	62	56	85	118	40
## 783	4967897	15	151724	106	62	92	128	48	64	126
## 784	4209635	12	122349	43	66	106	124	101	108	74

## 785	4835289	12	158537	127	59	75	85	41	63	76
## 786	5015912	12	184014	66	116	88	86	123	60	43
## 787	4503658	15	155374	50	39	51	77	49	72	68
## 788	4041843	10	181453	89	54	73	87	50	99	77
## 789	4975424	15	194569	60	58	113	52	51	75	121
## 790	3869847	12	173658	74	72	117	103	110	113	69
## 791	4082391	12	135647	47	103	84	44	116	113	116
## 792	4998405	12	143573	46	71	103	117	107	55	105
## 793	4911927	15	103489	65	73	74	68	44	92	116
## 794	3983193	12	96653	65	68	117	44	126	45	41
## 795	3919434	15	215282	47	102	119	47	95	50	60
## 796	4194067	12	110184	60	128	65	105	101	105	93
## 797	4635285	10	166026	91	53	79	82	123	106	52
## 798	4161396	13	139927	71	39	92	76	57	88	124
## 799	4651944	14	196236	54	101	76	42	59	82	120
## 800	4208326	13	207658	57	109	58	56	101	50	61
## 801	4406546	13	209310	73	67	106	64	79	119	91
## 802	4415338	11	180207	70	120	81	75	110	76	96
## 803	4316898	13	128569	89	115	58	94	46	105	77
## 804	4209071	13	205100	70	56	109	46	40	72	94
## 805	4538025	13	98823	123	58	90	67	115	119	109
## 806	4595681	12	213733	114	68	92	60	113	59	49
## 807	4895264	10	100018	121	69	121	90	65	124	83
## 808	3833106	13	97925	54	49	118	55	53	68	101
## 809	5014890	15	107096	39	62	104	74	120	124	74
## 810	4599475	11	217119	114	127	124	122	66	39	69
## 811	4349410	14	218282	66	115	54	40	106	89	91
## 812	4012252	14	140111	117	61	105	117	68	88	126
## 813	4915537	14	172772	92	78	89	57	107	63	73
## 814	4604304	13	186449	74	128	81	70	103	39	112
## 815	4351440	10	199409	120	103	97	85	65	62	102
## 816	4513625	15	95819	50	54	95	121	90	98	44
## 817	4102546	13	171370	43	110	99	66	101	92	72
## 818	3828703	14	130292	51	79	43	56	60	41	62
## 819	4136828	15	176027	104	80	94	79	54	41	88
## 820	4412293	14	157979	96	109	128	116	112	74	52
## 821	4542543	12	106281	43	70	120	91	95	119	69
## 822	4664665	11	143421	100	55	88	42	122	50	51
## 823	4361743	15	152176	114	91	120	73	109	128	95
## 824	4224604	14	168505	62	65	102	100	64	48	118
## 825	4288885	10	141909	49	101	89	77	76	66	76
## 826	4799323	13	225559	56	121	58	91	75	47	99
## 827	4692211	15	176587	42	70	58	70	85	124	86
## 828	3833632	15	164790	122	68	71	110	83	61	43
## 829	4886433	10	166889	119	88	74	110	56	68	48
## 830	4134614	15	102576	45	89	65	86	119	102	61
## 831	3816997	10	95571	73	57	126	43	95	45	105
## 832	4264881	14	106664	114	57	76	81	83	85	126
## 833	4522563	11	164379	88	121	48	51	93	81	50
## 834	4812876	12	155107	106	60	43	111	56	57	101

## 835	4466925	13	163897	40	63	120	103	122	112	91
## 836	4524729	13	199373	121	82	113	47	52	87	56
## 837	5003361	15	204647	122	102	111	70	63	79	41
## 838	4980554	15	187988	67	93	92	91	62	103	86
## 839	4471767	12	222566	63	107	89	97	122	55	68
## 840	4427047	11	168713	111	87	114	81	112	126	82
## 841	4158236	10	105441	62	109	56	107	92	50	82
## 842	4324337	13	138096	70	49	118	118	39	126	48
## 843	4459826	10	147910	77	55	128	106	104	110	120
## 844	4857660	14	181806	120	43	127	66	104	125	71
## 845	5013681	15	123634	47	50	100	118	40	107	45
## 846	5003094	15	152011	124	69	106	122	66	47	62
## 847	4357068	13	214651	85	51	53	83	93	75	86
## 848	4390465	15	218976	88	102	71	45	82	117	126
## 849	4953619	15	107047	65	126	117	51	109	85	39
## 850	3966341	15	131459	74	76	43	127	75	89	104
## 851	4780711	10	113191	117	78	61	111	113	81	58
## 852	3930878	10	216044	66	81	64	84	44	96	118
## 853	3827317	15	167141	57	103	115	120	95	125	82
## 854	4141988	12	163514	71	42	94	100	103	116	123
## 855	5015030	15	152542	42	39	64	95	80	71	81
## 856	4635605	12	186850	82	107	67	112	102	67	124
## 857	4622976	12	171369	122	59	53	128	55	101	81
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## 859	4714886	15	175972	105	110	100	63	99	86	56
## 860	4108168	10	218554	109	125	103	87	100	81	108
## 861	4743978	12	226464	86	46	96	83	57	113	59
## 862	4458604	10	140534	107	86	56	73	69	113	50
## 863	4474384	12	153871	44	78	122	57	100	39	87
## 864	4085197	13	168262	83	74	97	62	98	53	124
## 865	4739740	11	205803	119	104	56	67	119	43	56
## 866	4913107	15	189165	40	119	87	66	118	98	124
## 867	4208237	13	191270	84	41	112	109	81	115	107
## 868	4641445	15	214774	64	116	106	122	59	109	58
## 869	4378969	11	220166	100	66	125	96	118	110	112
## 870	3932150	15	145639	69	48	85	70	40	67	70
## 871	4696028	15	158976	44	93	111	116	67	43	109
## 872	4001656	12	126142	80	55	81	97	47	114	57
## 873	4381148	14	121785	121	76	99	85	124	83	81
## 874	4831177	13	145428	93	44	89	60	92	120	97
## 875	4992796	15	181076	88	76	103	48	102	112	114
## 876	3872290	11	142009	100	60	117	110	104	112	69
## 877	4389710	13	152995	83	58	111	93	76	95	110
## 878	4946109	11	123605	75	58	112	81	121	108	95
## 879	4806395	11	117687	52	64	127	106	48	70	128
## 880	3924095	13	114512	63	109	53	121	84	46	84
## 881	4111089	13	148577	85	122	88	43	88	96	122
## 882	4835618	15	217768	82	96	99	81	90	121	103
## 883	3861678	11	184435	61	59	48	71	46	109	92
## 884	4963363	11	166823	57	109	44	39	95	123	60

## 885	4019850	14	99024	99	94	112	101	115	53	52
## 886	4536902	10	97915	84	79	56	87	101	66	79
## 887	4639679	14	195902	60	45	43	125	93	126	41
## 888	4584887	10	115150	61	101	47	89	79	111	101
## 889	4318574	14	221498	45	109	76	118	106	66	89
## 890	4153119	13	202238	82	103	109	78	58	118	48
## 891	4568250	15	166180	124	40	49	88	71	121	84
## 892	4781060	11	155310	127	83	113	99	79	78	91
## 893	3918585	14	119972	75	89	112	68	115	126	47
## 894	4715089	14	106941	73	78	55	106	80	93	69
## 895	4935858	10	120118	62	100	47	79	107	106	56
## 896	4190269	13	211175	112	100	67	44	80	119	128
## 897	3871824	10	141034	80	45	48	114	46	42	117
## 898	4251256	11	185226	43	68	114	70	108	95	95
## 899	4187208	10	120415	53	80	113	85	115	125	104
## 900	4765763	13	172049	74	98	115	73	74	67	64
## 901	3899932	15	163032	77	95	98	60	126	87	64
## 902	4520611	10	128569	95	103	57	59	88	96	72
## 903	4067681	14	148987	62	100	120	93	39	78	43
## 904	4808437	14	119762	96	51	98	51	78	116	43
## 905	4146260	12	96580	86	104	65	104	102	94	71
## 906	4154548	13	140473	47	84	101	60	50	53	126
## 907	3857937	11	137722	46	39	79	111	80	95	89
## 908	4774865	15	178865	126	55	71	40	74	84	52
## 909	4058695	15	149412	41	128	105	53	122	46	78
## 910	4307225	15	141877	68	97	89	72	72	56	64
## 911	4696100	15	186779	70	84	71	71	108	108	108
## 912	3827460	12	210109	118	112	53	49	99	68	74
## 913	4547848	12	113921	101	53	71	119	121	97	64
## 914	4563519	15	133792	66	39	101	60	118	90	48
## 915	3956003	14	104968	57	85	105	45	85	90	126
## 916	4908056	13	208455	48	63	91	39	57	63	81
## 917	4532416	14	97663	39	75	117	68	75	65	92
## 918	4958475	12	107384	119	41	80	78	120	46	39
## 919	4377126	12	128570	91	101	106	49	44	62	123
## 920	4660298	11	158558	53	118	112	114	122	117	107
## 921	4809945	11	223000	42	109	91	87	64	109	78
## 922	4230570	15	199426	77	74	111	121	106	128	76
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## 924	4554941	14	185263	108	124	49	57	105	120	119
## 925	4308505	10	159236	94	102	90	113	72	101	114
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## 927	4560429	12	154843	76	92	87	53	54	60	82
## 928	4225413	14	103794	60	43	126	55	127	116	75
## 929	4393271	15	105345	107	112	82	117	109	41	72
## 930	4810099	11	186846	76	49	64	113	116	91	89
## 931	3900189	12	106850	99	89	123	110	108	67	58
## 932	3835942	11	201399	41	41	124	126	102	120	52
## 933	4585713	14	210097	45	67	114	73	96	127	39
## 934	3898509	10	177995	96	85	83	81	66	69	94

## 935	4187507	13	126990	63	39	40	60	127	95	40
## 936	4004770	14	120276	103	69	117	49	109	51	72
## 937	4047283	14	217955	42	65	40	40	79	77	69
## 938	4630835	13	177198	75	118	86	95	76	99	101
## 939	3898434	13	147897	125	124	93	123	47	81	116
## 940	4491715	13	219737	39	77	84	46	54	57	65
## 941	4464615	12	144117	46	114	46	58	51	49	108
## 942	4354506	12	130415	92	56	104	40	88	79	120
## 943	4514544	12	205705	60	87	85	75	69	87	123
## 944	4011210	12	136010	60	105	54	96	42	99	69
## 945	4070783	10	149190	79	60	108	68	92	116	98
## 946	4220659	13	99419	118	83	77	83	127	103	97
## 947	4773911	14	158409	65	58	59	84	40	62	67
## 948	3969883	13	212240	99	126	125	72	95	51	108
## 949	4696108	12	178301	67	107	94	50	71	98	62
## 950	4598722	15	96290	71	79	110	54	50	65	48
## 951	3992318	15	174996	55	95	75	83	66	75	126
## 952	4223816	12	184648	107	107	90	59	115	101	96
## 953	4931177	11	141813	99	70	71	63	98	103	102
## 954	4633037	12	146507	84	113	62	97	51	78	68
## 955	4081820	12	183130	86	121	53	64	114	87	87
## 956	4412165	14	172908	89	46	97	78	106	69	70
## 957	4256777	10	112791	51	119	124	113	102	94	102
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## 959	4417768	13	194553	91	81	115	96	87	90	120
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## 961	4179061	13	136945	124	99	115	70	52	39	76
## 962	3971507	11	154697	86	104	57	59	72	84	47
## 963	4047683	10	104055	78	81	115	107	110	125	51
## 964	4440492	15	145629	61	42	71	107	118	93	93
## 965	4878932	13	126507	103	126	122	64	115	40	62
## 966	4475274	14	131739	77	71	113	78	84	115	82
## 967	4183724	10	129449	119	77	56	107	124	72	117
## 968	4170819	13	177815	85	127	117	52	89	46	64
## 969	4335063	15	204787	93	64	107	85	49	106	122
## 970	3820864	15	146797	103	127	109	102	82	95	60
## 971	4198764	10	178879	94	92	71	66	50	41	53
## 972	4462721	10	173586	58	88	115	42	124	76	106
## 973	4096023	15	115587	79	86	59	75	60	104	102
## 974	4872346	10	135248	90	72	40	60	83	51	112
## 975	4049614	15	113152	79	78	82	39	60	128	79
## 976	4857663	13	93034	68	60	98	64	124	55	119
## 977	4644745	14	120190	107	96	127	39	78	40	47
## 978	3928958	11	135685	50	86	118	116	108	102	94
## 979	3860539	10	164865	46	96	71	80	100	88	53
## 980	4818713	11	110245	84	44	109	92	65	118	114
## 981	4555749	12	222240	72	60	122	98	82	82	101
## 982	3837487	10	127323	57	106	39	98	61	127	48
## 983	4265467	10	93603	120	107	56	80	68	128	61
## 984	4263573	14	198633	113	83	41	62	119	43	107

## 985	4003029	11	146638	106	75	101	109	95	114	107
## 986	4662925	11	120931	75	107	64	102	120	100	45
## 987	4922987	13	201439	67	86	41	39	65	127	105
## 988	4041846	11	199856	64	117	44	51	99	40	94
## 989	3930038	10	161919	105	124	41	48	47	121	114
## 990	3920665	14	202697	111	105	117	89	101	49	44
## 991	4645175	15	150551	124	119	86	99	82	42	109
## 992	4129056	12	225723	117	123	95	62	120	98	114
## 993	4175460	10	185976	44	101	49	113	118	106	123
## 994	4601266	13	176861	50	79	101	42	49	46	72
## 995	4379778	13	116526	122	57	113	49	116	126	56
## 996	4811610	10	164686	41	126	53	66	76	100	97
## 997	4596398	11	196701	68	65	64	45	119	51	102
## 998	4952527	15	122382	108	113	66	81	49	81	42
## 999	3855199	10	201684	104	81	104	114	104	48	44
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## 1002	4970449	13	163213	92	95	100	86	56	75	79
## 1003	4918700	14	129705	58	97	65	42	123	116	123
## 1004	4212813	14	176718	55	67	121	102	82	108	77
## 1005	4413983	15	94497	121	104	96	99	57	60	96
## 1006	3988868	15	197207	95	73	61	119	105	56	105
## 1007	4104168	11	151469	54	105	56	95	128	97	117
## 1008	3986007	14	117919	79	70	123	76	92	44	87
## 1009	3982076	10	105363	118	124	45	51	46	73	78
## 1010	4079242	15	225005	42	90	59	74	74	114	91
## 1011	4811510	11	217947	54	106	54	124	44	59	107
## 1012	4131917	11	182775	80	110	126	72	119	64	92
## 1013	4763038	14	190257	118	46	44	83	61	97	116
## 1014	4445570	15	202084	40	112	127	76	123	108	58
## 1015	4875045	13	101521	59	92	70	127	106	39	112
## 1016	4534788	14	184436	108	68	124	124	87	62	45
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## 1018	4881645	12	210977	46	98	89	61	65	45	84
## 1019	4399071	15	115741	121	116	104	114	74	92	57
## 1020	4579170	15	93013	40	54	105	125	105	76	87
## 1021	4986234	15	154519	52	64	108	72	115	63	67
## 1022	4201267	12	140981	82	45	118	77	51	123	63
## 1023	4509818	13	141131	93	81	106	81	83	65	100
## 1024	3912881	15	152933	86	79	114	120	117	62	79
## 1025	4348005	10	156878	97	47	73	88	84	89	44
## 1026	4994786	15	178489	39	96	96	81	52	39	99
## 1027	4246818	13	219199	78	96	115	103	58	114	88
## 1028	4344883	11	172058	59	114	98	124	121	119	120
## 1029	4371383	14	186247	112	93	121	53	43	117	56
## 1030	4885669	10	174283	86	66	112	124	58	94	100
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## 1032	4246720	14	174797	119	81	72	70	51	102	60
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## 1034	4927162	13	181009	42	112	71	73	63	109	63

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##	1040	4139097	14	183058	91	54	94	121	108	47	49
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##	1042	4444753	11	104272	124	39	76	121	81	74	84
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##	1052	4431268	15	187653	110	113	62	53	81	117	75
##	1053	4531245	11	93875	86	64	57	79	86	55	76
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##	1068	4404037	12	116402	71	39	86	39	61	69	70
##	1069	4180597	11	120135	55	71	97	62	88	69	113
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##	1072	4538153	15	196107	128	120	72	72	39	68	75
##	1073	4338341	15	147391	103	102	63	101	85	70	102
##	1074	4797582	10	159348	51	54	51	90	98	110	46
##	1075	4938035	13	186424	110	84	106	116	53	93	84
##	1076	4849345	13	198687	115	117	116	57	122	89	90
##	1077	4908395	15	184654	56	128	128	79	58	121	42
##	1078	4286163	13	168846	67	109	63	65	56	101	80
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##	1080	4017277	11	115336	90	79	96	105	73	59	69
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## 1087	4357935	13	156902	112	105	106	97	88	41	97
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## 1090	4951656	14	167707	124	62	89	69	101	121	43
## 1091	4598915	13	95248	54	41	104	105	84	70	119
## 1092	4651798	13	97982	108	71	128	40	75	110	104
## 1093	4657725	12	141628	51	88	43	62	43	118	83
## 1094	3823056	13	103432	58	77	88	56	114	62	102
## 1095	4039301	11	133033	94	53	95	88	114	48	72
## 1096	4447730	12	132890	97	69	71	49	62	80	123
## 1097	4502561	11	160025	80	81	69	39	78	96	116
## 1098	4094571	14	120029	91	64	124	74	104	66	85
## 1099	4996672	15	120409	107	128	96	50	126	83	91
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## 1102	4657522	12	111404	122	116	55	82	41	62	50
## 1103	4140704	15	206742	77	53	46	94	113	65	41
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## 1105	4220108	12	186946	95	96	119	119	76	39	92
## 1106	4623350	10	216892	105	108	126	92	64	60	64
## 1107	4281333	10	212637	86	74	92	52	69	91	89
## 1108	4744840	12	158291	67	122	81	45	123	121	76
## 1109	4014444	10	114478	59	113	67	93	103	41	64
## 1110	4421034	14	120101	76	104	67	44	67	73	92
## 1111	4640710	13	162588	45	74	114	107	127	86	90
## 1112	3907022	10	160288	41	46	103	93	104	126	104
## 1113	4996370	10	185504	96	93	111	97	99	123	63
## 1114	4513256	15	186245	80	115	82	43	57	122	128
## 1115	4182711	11	150370	121	105	66	118	39	50	97
## 1116	4816128	15	197736	95	106	81	97	103	61	76
## 1117	3937154	13	164628	128	95	113	123	127	53	58
## 1118	4465187	14	219894	114	77	41	56	40	42	83
## 1119	4495640	10	139079	63	126	128	59	111	75	93
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## 1121	4366253	14	184611	95	109	59	39	93	57	68
## 1122	4992982	14	115678	107	60	66	64	77	76	64
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## 1126	4578453	12	200249	58	94	121	57	112	65	72
## 1127	4794772	15	121631	100	83	85	103	53	73	117
## 1128	4462788	12	125067	68	66	103	96	93	93	94
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## 1134	4007346	10	110591	112	101	63	55	81	51	114

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##	1137	3909071	13	224067	78	82	80	110	65	114	98
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##	1142	4228611	11	161886	128	63	82	42	54	73	86
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##	1244	4252898	14	223813	51	57	96	46	65	63	119
##	1245	4958205	12	98996	115	105	126	103	126	66	75
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##	1248	4478346	10	143055	114	93	116	95	97	53	46
##	1249	4842077	11	118448	110	63	87	119	84	44	84
##	1250	3855669	14	129179	55	92	83	120	92	105	121
##	1251	3993346	11	149775	41	51	64	103	54	73	117
##	1252	3985694	14	225816	55	41	120	91	92	59	82
##	1253	3853907	14	207921	55	72	84	53	115	101	84
##	1254	4647735	15	185818	63	44	104	52	108	61	69
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##	1273	3879999	13	200378	78	52	55	46	52	48	89
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##	1280	4631124	15	188530	74	112	65	88	123	95	111
##	1281	3955678	13	117556	126	91	39	124	54	119	126
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## 1299	4981066	14	178644	95	88	64	96	76	48	44
## 1300	4211426	15	105923	46	74	124	104	84	71	125
## 1301	3833061	11	143999	49	72	98	51	59	118	62
## 1302	4026535	14	165557	51	62	71	89	128	45	80
## 1303	3817833	13	139767	94	80	71	116	127	42	55
## 1304	4374130	14	104980	73	65	45	53	41	122	43
## 1305	4670848	10	180843	75	90	45	116	42	119	101
## 1306	4110872	12	193061	108	90	79	42	44	105	99
## 1307	4537281	15	186470	104	49	121	95	114	82	87
## 1308	4663878	12	176646	64	93	85	121	76	128	78
## 1309	4056331	11	184148	44	108	46	81	113	122	117
## 1310	4710060	13	137820	121	70	98	122	41	60	89
## 1311	4472238	14	124937	81	68	121	56	92	121	49
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## 1327	4488498	13	215142	94	90	109	82	121	47	49
## 1328	4422543	12	115100	94	97	72	86	116	95	124
## 1329	4569330	12	134921	105	91	100	107	107	70	124
## 1330	4749487	12	194449	120	125	76	87	95	90	65
## 1331	4954074	12	154235	41	39	57	102	94	66	59
## 1332	4494757	10	117195	61	88	59	40	76	113	52
## 1333	4891327	15	198601	83	67	48	127	81	113	87
## 1334	4877762	13	188956	58	76	115	113	124	122	50

##	1335	4507140	12	172601	100	51	108	101	59	83	107
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##	1338	3893255	12	141791	89	43	83	54	91	115	125
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##	1341	4050968	11	200580	42	70	94	40	55	115	116
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##	1379	4627740	11	180703	42	124	67	90	56	46	127
##	1380	4076324	12	150065	89	113	52	39	54	86	78
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## 1385	4059176	14	136615	51	126	39	68	115	64	71
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## 3		5	571148		661346		5	735945		558829
## 4		33	1041941		449939	585688		744463		582301
## 5		30	660410		738756	3731527		338946		242861
## 6		29	1157452		1086852		5	5		5
## 7		28	325694		1034008	275095		214566		635157
## 8		39	641129		72050	787295		370605		506296
## 9		45	591441		757361		5	371090		203042
## 10		30	1151206		230488	267320		275295		555516
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## 12		45	137712		1122999	561438		63145		806204
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## 15		36	1133727		1111871	421304		437544		124609
## 16		34	614951		314296	83690		671490		135145
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## 19		26	506756		359181	743399		405175		162983
## 20		42	1080499		76404	717159		404314		477719
## 21		32	169624		786017	669076		531187		282524
## 22		32	1135200		572747		5	5		5
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## 24		25	993940		992652	96482		334897		762760
## 25		43	243433		981370	12504		360015		753383
## 26		35	955296		540654		5	5		5
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## 28		43	486467		45990	45578		733292		19572
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## 31		41	1194301		928679	29778		124250		244049
## 32		26	557708		287714	623587		66891		35044
## 33		24	604063		416313	323352		716655		678548
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## 36		40	1165166		51508	367178		588014		746328
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## 48		28	740502		1197447	180453		524563		291808

## 49	25	851582	699521	678396	765773	546423
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## 51	42	973294	998745	756060	175062	241593
## 52	43	508849	130739	43228	300616	92124
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## 54	32	253848	257913	382306	672711	385161
## 55	44	598661	574070	356122	78520	607065
## 56	23	149650	208611	266578	53715	481377
## 57	32	232668	880198	175039	181268	184145
## 58	30	350564	150496	585077	6325	537325
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## 60	27	1010649	1152238	93316	639465	63629
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## 62	29	365429	239426	755513	290266	643822
## 63	26	620102	544738	740639	468459	208323
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## 66	26	175169	68868	632671	207722	258934
## 67	28	1177815	714160	93094	314177	102758
## 68	29	590244	290610	256588	94684	544054
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## 80	40	54743	390760	197060	388410	332045
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## 85	30	1145156	823207	45613	447067	754430
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## 99	27	746998	385015	5	5	5
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## 138	45	442128	1043126	510354	407437	187721
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## 149	26	144825	1112542	716822	325884	598833
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## 164	28	87557	139368	47678	697035	26909
## 165	41	757756	87029	5	5	5
## 166	37	358967	533261	95476	540476	333006
## 167	45	134857	519666	484227	712027	308695
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## 555	38	865024	1036923	385934	325258	151705
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## 1343	C
## 1344	NC
## 1345	NC
## 1346	C
## 1347	C
## 1348	C
## 1349	C
## 1350	C
## 1351	C
## 1352	C
## 1353	NC
## 1354	NC
## 1355	C
## 1356	C
## 1357	C
## 1358	C
## 1359	NC
## 1360	C
## 1361	C
## 1362	NC
## 1363	C
## 1364	NC
## 1365	NC
## 1366	C
## 1367	C
## 1368	C
## 1369	C
## 1370	C
## 1371	C
## 1372	C
## 1373	C
## 1374	C
## 1375	C
## 1376	C

```
## 1377      C
## 1378     NC
## 1379     NC
## 1380     NC
## 1381      C
## 1382      C
## 1383      C
## 1384      C
## 1385      C
```

```
data$Survivorship <- as.factor(data$Survivorship)
```

```
#####
```

```
##
```

```
## Reformat the data so that it is
```

```
## 1) Easy to use (add nice column names)
```

```
## 2) Interpreted correctly by glm()..
```

```
##
```

```
#####
```

```
head(data) # you see data, but no column names
```

```
##   Age Gender BMI Fever Nausea.Vomting Headache Diarrhea
## 1  56      1  35     2              1          1         1
## 2  46      1  29     1              2          2         1
## 3  57      1  33     2              2          2         2
## 4  49      2  33     1              2          1         2
## 5  59      1  32     1              1          2         1
## 6  58      2  22     2              2          2         1
##   Fatigue...generalized.bone.ache Jaundice Epigastric.pain   WBC      RBC
## 1              2              2              2  7425 4248807
## 2              2              2              1 12101 4429425
## 3              1              1              1  4178 4621191
## 4              1              2              1  6490 4794631
## 5              2              2              2  3661 4606375
## 6              2              2              1 11785 3882456
##   HGB   Plat AST.1 ALT.1 ALT4 ALT.12 ALT.24 ALT.36 ALT.48 ALT.after.24.w
## 1  14 112132   99   84   52   109    81     5     5              5
## 2  10 129367   91  123   95    75   113    57   123              44
## 3  12 151522  113   49   95   107   116     5     5              5
## 4  10 146457   43   64  109    80    88    48    77              33
## 5  11 187684   99  104   67   48   120    94    90              30
## 6  15 131228   66  104  121   96    65    73   114              29
##   RNA.Base   RNA.4  RNA.12 RNA.EOT RNA.EF Baseline.histological.Grading
## 1  655330  634536  288194      5      5              13
## 2   40620  538635  637056  336804  31085              4
## 3   571148  661346      5  735945  558829              4
## 4  1041941  449939  585688  744463  582301              10
## 5   660410  738756  3731527  338946  242861              11
## 6  1157452 1086852      5      5      5              4
##   Baselinehistological.staging Survivorship
## 1              2              C
```



```
## 2          2          C
## 3          4          NC
## 4          3          NC
## 5          1          C
## 6          4          C
```

```
str(data)
```

```
## 'data.frame':  1385 obs. of  30 variables:
## $ Age                : int  56 46 57 49 59 58 42 48 44 45 ...
## $ Gender              : int  1 1 1 2 1 2 2 2 1 1 ...
## $ BMI                 : int  35 29 33 33 32 22 26 30 23 30 ...
## $ Fever               : int  2 1 2 1 1 2 1 1 1 2 ...
## $ Nausea.Vomting      : int  1 2 2 2 1 2 1 1 1 1 ...
## $ Headache            : int  1 2 2 1 2 2 2 2 2 2 ...
## $ Diarrhea            : int  1 1 2 2 1 1 2 2 2 2 ...
## $ Fatigue...generalized.bone.ache: int  2 2 1 1 2 2 2 1 2 1 ...
## $ Jaundice            : int  2 2 1 2 2 2 2 1 1 1 ...
## $ Epigastric.pain     : int  2 1 1 1 2 1 2 2 2 2 ...
## $ WBC                 : int  7425 12101 4178 6490 3661 11785
11620 7335 10480 6681 ...
## $ RBC                 : num  4248807 4429425 4621191 4794631
4606375 ...
## $ HGB                 : int  14 10 12 10 11 15 12 11 12 12 ...
## $ Plat                : num  112132 129367 151522 146457
187684 ...
## $ AST.1               : int  99 91 113 43 99 66 78 119 93 55
...
## $ ALT.1               : int  84 123 49 64 104 104 57 112 83 68
...
## $ ALT4                : num  52 95 95 109 67 121 113 80 55 72
...
## $ ALT.12              : int  109 75 107 80 48 96 118 127 102
127 ...
## $ ALT.24              : int  81 113 116 88 120 65 107 45 97 81
...
## $ ALT.36              : int  5 57 5 48 94 73 84 96 122 125 ...
## $ ALT.48              : int  5 123 5 77 90 114 80 53 39 43 ...
## $ ALT.after.24.w      : int  5 44 5 33 30 29 28 39 45 30 ...
## $ RNA.Base            : int  655330 40620 571148 1041941
660410 1157452 325694 641129 591441 1151206 ...
## $ RNA.4               : int  634536 538635 661346 449939
738756 1086852 1034008 72050 757361 230488 ...
## $ RNA.12              : int  288194 637056 5 585688 3731527 5
275095 787295 5 267320 ...
## $ RNA.EOT             : int  5 336804 735945 744463 338946 5
214566 370605 371090 275295 ...
## $ RNA.EF              : int  5 31085 558829 582301 242861 5
635157 506296 203042 555516 ...
## $ Baseline.histological.Grading : int  13 4 4 10 11 4 12 12 5 4 ...
```

```
## $ Baselinehistological.staging : int 2 2 4 3 1 4 4 3 2 2 ...
## $ Survivorship : Factor w/ 2 levels "C","NC": 1 1 2 2 1
1 1 1 1 1 ...
```

this shows that we need to tell R which columns contain factors it also shows us that there are some missing values. There are "?"s in the dataset. These are in the "ca" and "thal" columns. First, convert "?"s to NAs...

```
data[data == "?"] <- NA
```

Now add factors for variables that are factors and clean up the factors that had missing data...

```
data[data$Gender == 1,]$Gender <- "M"
```

```
data[data$Gender == 2,]$Gender <- "F"
```

```
data$Gender <- as.factor(data$Gender)
```

```
data[data$Fever == 1,]$Fever <- "No"
```

```
data[data$Fever == 2,]$Fever <- "Yes"
```

```
data$Fever <- as.factor(data$Fever)
```

```
data[data$Nausea.Vomting == 1,]$Nausea.Vomting <- "No"
```

```
data[data$Nausea.Vomting == 2,]$Nausea.Vomting <- "Yes"
```

```
data$Nausea.Vomting <- as.factor(data$Nausea.Vomting)
```

```
data[data$Headache == 1,]$Headache <- "No"
```

```
data[data$Headache == 2,]$Headache <- "Yes"
```

```
data$Headache <- as.factor(data$Headache)
```

```
data[data$Diarrhea == 1,]$Diarrhea <- "No"
```

```
data[data$Diarrhea == 2,]$Diarrhea <- "Yes"
```

```
data$Diarrhea <- as.factor(data$Diarrhea)
```

```
data[data$Fatigue...generalized.bone.ache ==
```

```
1,]$Fatigue...generalized.bone.ache <- "No"
```

```
data[data$Fatigue...generalized.bone.ache ==
```

```
2,]$Fatigue...generalized.bone.ache <- "Yes"
```

```
data$Fatigue...generalized.bone.ache <-
```

```
as.factor(data$Fatigue...generalized.bone.ache)
```

```
data[data$Jaundice == 1,]$Jaundice <- "No"
```

```
data[data$Jaundice == 2,]$Jaundice <- "Yes"
```

```
data$Jaundice <- as.factor(data$Jaundice)
```

```
data[data$Epigastric.pain == 1,]$Epigastric.pain <- "No"
```

```
data[data$Epigastric.pain == 2,]$Epigastric.pain <- "Yes"
```

```
data$Epigastric.pain <- as.factor(data$Epigastric.pain)
```

```
data[data$Baselinehistological.staging == 1,]$Baselinehistological.staging <-
"Portal Fibrosis"
```

```
data[data$Baselinehistological.staging == 2,]$Baselinehistological.staging <-
"Few Septa"
```

```
data[data$Baselinehistological.staging == 3,]$Baselinehistological.staging <-
"Many Septa "
```

```
data[data$Baselinehistological.staging == 4,]$Baselinehistological.staging <-
"Cirrhosis"
```

```
data$Baseline.histological.Grading <-
```

```
as.factor(data$Baseline.histological.Grading)
```

```
data$Baselinehistological.staging <-
```

```
as.factor(data$Baselinehistological.staging)
str(data)
```

```
## 'data.frame':    1385 obs. of  30 variables:
## $ Age                : int  56 46 57 49 59 58 42 48 44 45 ...
## $ Gender              : Factor w/ 2 levels "F","M": 2 2 2 1 2
1 1 1 2 2 ...
## $ BMI                 : int  35 29 33 33 32 22 26 30 23 30 ...
## $ Fever               : Factor w/ 2 levels "No","Yes": 2 1 2 1
1 2 1 1 1 2 ...
## $ Nausea.Vomting      : Factor w/ 2 levels "No","Yes": 1 2 2 2
1 2 1 1 1 1 ...
## $ Headache            : Factor w/ 2 levels "No","Yes": 1 2 2 1
2 2 2 2 2 2 ...
## $ Diarrhea            : Factor w/ 2 levels "No","Yes": 1 1 2 2
1 1 2 2 2 2 ...
## $ Fatigue...generalized.bone.ache: Factor w/ 2 levels "No","Yes": 2 2 1 1
2 2 2 1 2 1 ...
## $ Jaundice            : Factor w/ 2 levels "No","Yes": 2 2 1 2
2 2 2 1 1 1 ...
## $ Epigastric.pain     : Factor w/ 2 levels "No","Yes": 2 1 1 1
2 1 2 2 2 2 ...
## $ WBC                 : int  7425 12101 4178 6490 3661 11785
11620 7335 10480 6681 ...
## $ RBC                 : num  4248807 4429425 4621191 4794631
4606375 ...
## $ HGB                 : int  14 10 12 10 11 15 12 11 12 12 ...
## $ Plat                : num  112132 129367 151522 146457
187684 ...
## $ AST.1               : int  99 91 113 43 99 66 78 119 93 55
...
## $ ALT.1               : int  84 123 49 64 104 104 57 112 83 68
...
## $ ALT4                : num  52 95 95 109 67 121 113 80 55 72
...
## $ ALT.12              : int  109 75 107 80 48 96 118 127 102
127 ...
## $ ALT.24              : int  81 113 116 88 120 65 107 45 97 81
...
## $ ALT.36              : int  5 57 5 48 94 73 84 96 122 125 ...
## $ ALT.48              : int  5 123 5 77 90 114 80 53 39 43 ...
## $ ALT.after.24.w      : int  5 44 5 33 30 29 28 39 45 30 ...
## $ RNA.Base            : int  655330 40620 571148 1041941
660410 1157452 325694 641129 591441 1151206 ...
## $ RNA.4               : int  634536 538635 661346 449939
738756 1086852 1034008 72050 757361 230488 ...
## $ RNA.12              : int  288194 637056 5 585688 3731527 5
275095 787295 5 267320 ...
## $ RNA.EOT             : int  5 336804 735945 744463 338946 5
214566 370605 371090 275295 ...
```

```

## $ RNA.EF : int 5 31085 558829 582301 242861 5
635157 506296 203042 555516 ...
## $ Baseline.histological.Grading : Factor w/ 14 levels
"3","4","5","6",...: 11 2 2 8 9 2 10 10 3 2 ...
## $ Baselinehistological.staging : Factor w/ 4 levels "Cirrhosis","Few
Septa",...: 2 2 1 3 4 1 1 3 2 2 ...
## $ Survivorship : Factor w/ 2 levels "C","NC": 1 1 2 2 1
1 1 1 1 1 ...

#####
xtabs(~ Survivorship + Gender, data=data)

##           Gender
## Survivorship  F   M
##           C  425 478
##           NC  253 229

xtabs(~ Survivorship + Fever, data=data)

##           Fever
## Survivorship  No Yes
##           C  440 463
##           NC  231 251

xtabs(~ Survivorship + Nausea.Vomting, data=data)

##           Nausea.Vomting
## Survivorship  No Yes
##           C  451 452
##           NC  238 244

xtabs(~ Survivorship + Headache, data=data)

##           Headache
## Survivorship  No Yes
##           C  450 453
##           NC  248 234

xtabs(~ Survivorship + Diarrhea, data=data)

##           Diarrhea
## Survivorship  No Yes
##           C  452 451
##           NC  237 245

xtabs(~ Survivorship + Fatigue...generalized.bone.ache, data=data)

##           Fatigue...generalized.bone.ache
## Survivorship  No Yes
##           C  463 440
##           NC  231 251

xtabs(~ Survivorship + Jaundice, data=data)

```

```

##           Jaundice
## Survivorship  No Yes
##           C  462 441
##           NC  229 253

xtabs(~ Survivorship + Epigastric.pain, data=data)

##           Epigastric.pain
## Survivorship  No Yes
##           C  458 445
##           NC  229 253

xtabs(~ Survivorship + Baselinehistological.staging, data=data)

##           Baselinehistological.staging
## Survivorship Cirrhosis Few Septa Many Septa Portal Fibrosis
##           C           235           221           234           213
##           NC           127           111           121           123

## Now we are ready for some logistic regression. First we'll create a very
## simple model that uses sex to predict heart disease
##
xtabs(~ Survivorship + Gender, data=data)

##           Gender
## Survivorship  F  M
##           C  425 478
##           NC  253 229

## Most of the females are healthy and most of the males are unhealthy.
## Being female is likely to decrease the odds in being unhealthy.
## In other words, if a sample is female, the odds are against it that it
## will be unhealthy
## Being male is likely to increase the odds in being unhealthy...
## In other words, if a sample is male, the odds are for it being
unhealthy
logistic_simple <- glm(Survivorship ~ Gender, data=data, family="binomial")
summary(logistic_simple)

##
## Call:
## glm(formula = Survivorship ~ Gender, family = "binomial", data = data)
##
## Deviance Residuals:
##      Min       1Q   Median       3Q      Max
## -0.9665  -0.9665  -0.8848   1.4041   1.5015
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept) -0.51870    0.07941  -6.532 6.48e-11 ***
## GenderM      -0.21719    0.11298  -1.922  0.0546 .
## ---

```

```

## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##      Null deviance: 1790.0  on 1384  degrees of freedom
## Residual deviance: 1786.3  on 1383  degrees of freedom
## AIC: 1790.3
##
## Number of Fisher Scoring iterations: 4

## The intercept is the log(odds) a female will be unhealthy. This is because
## female is the first factor in "sex" (the factors are ordered,
## alphabetically by default, "female", "male")
## Now let's look at the second coefficient...
##      sexM          1.2737      0.2725    4.674 2.95e-06 ***
##
## sexM is the log(odds ratio) that tells us that if a sample has sex=M, the
## odds of being unhealthy are, on a log scale, 1.27 times greater than if
## a sample has sex=F.
female.log.odds <- log(253 / 425)
female.log.odds

## [1] -0.5186997

# Now you know how these are calculated
male.log.odds.ratio <- log((229 / 478) / (253 / 425))
male.log.odds.ratio

## [1] -0.217189

## Now calculate the overall "Pseudo R-squared" and its p-value
## NOTE: Since we are doing logistic regression...
## Null deviance = 2*(0 - LogLikelihood(null model))
##              = -2*LogLikelihood(null model)
## Residual deviance = 2*(0 - LogLikelihood(proposed model))
##              = -2*LogLikelihood(proposed model)
ll.null <- logistic_simple$null.deviance / -2
ll.proposed <- logistic_simple$deviance / -2
ll.null

## [1] -894.9992

ll.proposed

## [1] -893.1488

## McFadden's Pseudo R^2 = [ LL(Null) - LL(Proposed) ] / LL(Null)
(ll.null - ll.proposed) / ll.null

## [1] 0.002067477

```

```

## chi-square value = 2*(LL(Proposed) - LL(Null))
## p-value = 1 - pchisq(chi-square value, df = 2-1)
1 - pchisq(2*(ll.proposed - ll.null), df=1)

## [1] 0.05438701

1 - pchisq((logistic_simple$null.deviance - logistic_simple$deviance), df=1)

## [1] 0.05438701

## Lastly, let's see what this logistic regression predicts, given
## that a patient is either female or male (and no other data about them).
predicted.data <-
data.frame(probability.of.Survivorship=logistic_simple$fitted.values, Gender=data$Gender)
predicted.data

##      probability.of.Survivorship Gender
## 1                0.3239038      M
## 2                0.3239038      M
## 3                0.3239038      M
## 4                0.3731563      F
## 5                0.3239038      M
## 6                0.3731563      F
## 7                0.3731563      F
## 8                0.3731563      F
## 9                0.3239038      M
## 10               0.3239038      M
## 11               0.3731563      F
## 12               0.3239038      M
## 13               0.3731563      F
## 14               0.3239038      M
## 15               0.3731563      F
## 16               0.3239038      M
## 17               0.3239038      M
## 18               0.3731563      F
## 19               0.3239038      M
## 20               0.3731563      F
## 21               0.3731563      F
## 22               0.3239038      M
## 23               0.3239038      M
## 24               0.3731563      F
## 25               0.3731563      F
## 26               0.3731563      F
## 27               0.3239038      M
## 28               0.3731563      F
## 29               0.3731563      F
## 30               0.3731563      F
## 31               0.3731563      F
## 32               0.3731563      F
## 33               0.3731563      F

```

## 34	0.3239038	M
## 35	0.3239038	M
## 36	0.3239038	M
## 37	0.3731563	F
## 38	0.3239038	M
## 39	0.3731563	F
## 40	0.3239038	M
## 41	0.3731563	F
## 42	0.3731563	F
## 43	0.3239038	M
## 44	0.3239038	M
## 45	0.3731563	F
## 46	0.3239038	M
## 47	0.3239038	M
## 48	0.3239038	M
## 49	0.3239038	M
## 50	0.3731563	F
## 51	0.3731563	F
## 52	0.3731563	F
## 53	0.3239038	M
## 54	0.3239038	M
## 55	0.3239038	M
## 56	0.3731563	F
## 57	0.3731563	F
## 58	0.3239038	M
## 59	0.3731563	F
## 60	0.3731563	F
## 61	0.3731563	F
## 62	0.3731563	F
## 63	0.3731563	F
## 64	0.3731563	F
## 65	0.3239038	M
## 66	0.3239038	M
## 67	0.3731563	F
## 68	0.3731563	F
## 69	0.3731563	F
## 70	0.3239038	M
## 71	0.3239038	M
## 72	0.3731563	F
## 73	0.3731563	F
## 74	0.3239038	M
## 75	0.3731563	F
## 76	0.3239038	M
## 77	0.3731563	F
## 78	0.3239038	M
## 79	0.3239038	M
## 80	0.3239038	M
## 81	0.3239038	M
## 82	0.3239038	M
## 83	0.3239038	M

## 84	0.3239038	M
## 85	0.3731563	F
## 86	0.3239038	M
## 87	0.3731563	F
## 88	0.3731563	F
## 89	0.3239038	M
## 90	0.3239038	M
## 91	0.3731563	F
## 92	0.3731563	F
## 93	0.3731563	F
## 94	0.3239038	M
## 95	0.3239038	M
## 96	0.3731563	F
## 97	0.3239038	M
## 98	0.3239038	M
## 99	0.3731563	F
## 100	0.3731563	F
## 101	0.3731563	F
## 102	0.3239038	M
## 103	0.3731563	F
## 104	0.3239038	M
## 105	0.3731563	F
## 106	0.3239038	M
## 107	0.3731563	F
## 108	0.3239038	M
## 109	0.3239038	M
## 110	0.3731563	F
## 111	0.3239038	M
## 112	0.3239038	M
## 113	0.3731563	F
## 114	0.3731563	F
## 115	0.3731563	F
## 116	0.3731563	F
## 117	0.3731563	F
## 118	0.3239038	M
## 119	0.3731563	F
## 120	0.3239038	M
## 121	0.3239038	M
## 122	0.3239038	M
## 123	0.3731563	F
## 124	0.3239038	M
## 125	0.3239038	M
## 126	0.3731563	F
## 127	0.3239038	M
## 128	0.3731563	F
## 129	0.3239038	M
## 130	0.3731563	F
## 131	0.3731563	F
## 132	0.3239038	M
## 133	0.3731563	F

## 134	0.3239038	M
## 135	0.3731563	F
## 136	0.3731563	F
## 137	0.3239038	M
## 138	0.3731563	F
## 139	0.3731563	F
## 140	0.3239038	M
## 141	0.3731563	F
## 142	0.3731563	F
## 143	0.3239038	M
## 144	0.3239038	M
## 145	0.3731563	F
## 146	0.3239038	M
## 147	0.3239038	M
## 148	0.3239038	M
## 149	0.3731563	F
## 150	0.3239038	M
## 151	0.3731563	F
## 152	0.3239038	M
## 153	0.3731563	F
## 154	0.3239038	M
## 155	0.3239038	M
## 156	0.3239038	M
## 157	0.3239038	M
## 158	0.3731563	F
## 159	0.3239038	M
## 160	0.3731563	F
## 161	0.3731563	F
## 162	0.3239038	M
## 163	0.3239038	M
## 164	0.3731563	F
## 165	0.3731563	F
## 166	0.3239038	M
## 167	0.3239038	M
## 168	0.3239038	M
## 169	0.3239038	M
## 170	0.3239038	M
## 171	0.3239038	M
## 172	0.3731563	F
## 173	0.3731563	F
## 174	0.3239038	M
## 175	0.3239038	M
## 176	0.3731563	F
## 177	0.3239038	M
## 178	0.3239038	M
## 179	0.3239038	M
## 180	0.3239038	M
## 181	0.3239038	M
## 182	0.3239038	M
## 183	0.3731563	F

## 184	0.3731563	F
## 185	0.3731563	F
## 186	0.3239038	M
## 187	0.3731563	F
## 188	0.3731563	F
## 189	0.3239038	M
## 190	0.3239038	M
## 191	0.3239038	M
## 192	0.3731563	F
## 193	0.3731563	F
## 194	0.3731563	F
## 195	0.3731563	F
## 196	0.3731563	F
## 197	0.3239038	M
## 198	0.3239038	M
## 199	0.3731563	F
## 200	0.3731563	F
## 201	0.3731563	F
## 202	0.3731563	F
## 203	0.3239038	M
## 204	0.3239038	M
## 205	0.3731563	F
## 206	0.3239038	M
## 207	0.3731563	F
## 208	0.3731563	F
## 209	0.3239038	M
## 210	0.3239038	M
## 211	0.3239038	M
## 212	0.3731563	F
## 213	0.3731563	F
## 214	0.3731563	F
## 215	0.3731563	F
## 216	0.3731563	F
## 217	0.3239038	M
## 218	0.3731563	F
## 219	0.3239038	M
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## 878	0.3731563	F
## 879	0.3239038	M
## 880	0.3239038	M
## 881	0.3239038	M
## 882	0.3239038	M
## 883	0.3731563	F

## 884	0.3239038	M
## 885	0.3239038	M
## 886	0.3239038	M
## 887	0.3731563	F
## 888	0.3239038	M
## 889	0.3239038	M
## 890	0.3239038	M
## 891	0.3239038	M
## 892	0.3731563	F
## 893	0.3239038	M
## 894	0.3239038	M
## 895	0.3731563	F
## 896	0.3731563	F
## 897	0.3239038	M
## 898	0.3239038	M
## 899	0.3239038	M
## 900	0.3239038	M
## 901	0.3731563	F
## 902	0.3239038	M
## 903	0.3239038	M
## 904	0.3239038	M
## 905	0.3239038	M
## 906	0.3239038	M
## 907	0.3239038	M
## 908	0.3731563	F
## 909	0.3239038	M
## 910	0.3239038	M
## 911	0.3731563	F
## 912	0.3731563	F
## 913	0.3239038	M
## 914	0.3731563	F
## 915	0.3239038	M
## 916	0.3731563	F
## 917	0.3731563	F
## 918	0.3731563	F
## 919	0.3239038	M
## 920	0.3239038	M
## 921	0.3731563	F
## 922	0.3239038	M
## 923	0.3239038	M
## 924	0.3239038	M
## 925	0.3239038	M
## 926	0.3239038	M
## 927	0.3239038	M
## 928	0.3239038	M
## 929	0.3731563	F
## 930	0.3239038	M
## 931	0.3239038	M
## 932	0.3731563	F
## 933	0.3239038	M

## 934	0.3731563	F
## 935	0.3239038	M
## 936	0.3239038	M
## 937	0.3239038	M
## 938	0.3731563	F
## 939	0.3731563	F
## 940	0.3239038	M
## 941	0.3731563	F
## 942	0.3239038	M
## 943	0.3239038	M
## 944	0.3731563	F
## 945	0.3731563	F
## 946	0.3239038	M
## 947	0.3239038	M
## 948	0.3731563	F
## 949	0.3239038	M
## 950	0.3239038	M
## 951	0.3731563	F
## 952	0.3731563	F
## 953	0.3731563	F
## 954	0.3239038	M
## 955	0.3731563	F
## 956	0.3731563	F
## 957	0.3731563	F
## 958	0.3731563	F
## 959	0.3239038	M
## 960	0.3731563	F
## 961	0.3239038	M
## 962	0.3239038	M
## 963	0.3239038	M
## 964	0.3239038	M
## 965	0.3731563	F
## 966	0.3731563	F
## 967	0.3239038	M
## 968	0.3239038	M
## 969	0.3239038	M
## 970	0.3239038	M
## 971	0.3731563	F
## 972	0.3239038	M
## 973	0.3731563	F
## 974	0.3731563	F
## 975	0.3731563	F
## 976	0.3731563	F
## 977	0.3239038	M
## 978	0.3731563	F
## 979	0.3239038	M
## 980	0.3731563	F
## 981	0.3731563	F
## 982	0.3731563	F
## 983	0.3731563	F

## 984	0.3239038	M
## 985	0.3731563	F
## 986	0.3239038	M
## 987	0.3731563	F
## 988	0.3239038	M
## 989	0.3239038	M
## 990	0.3239038	M
## 991	0.3239038	M
## 992	0.3239038	M
## 993	0.3239038	M
## 994	0.3239038	M
## 995	0.3239038	M
## 996	0.3731563	F
## 997	0.3239038	M
## 998	0.3731563	F
## 999	0.3731563	F
## 1000	0.3239038	M
## 1001	0.3239038	M
## 1002	0.3731563	F
## 1003	0.3239038	M
## 1004	0.3731563	F
## 1005	0.3239038	M
## 1006	0.3731563	F
## 1007	0.3239038	M
## 1008	0.3239038	M
## 1009	0.3731563	F
## 1010	0.3239038	M
## 1011	0.3239038	M
## 1012	0.3239038	M
## 1013	0.3731563	F
## 1014	0.3239038	M
## 1015	0.3731563	F
## 1016	0.3731563	F
## 1017	0.3731563	F
## 1018	0.3731563	F
## 1019	0.3731563	F
## 1020	0.3731563	F
## 1021	0.3239038	M
## 1022	0.3239038	M
## 1023	0.3731563	F
## 1024	0.3239038	M
## 1025	0.3239038	M
## 1026	0.3731563	F
## 1027	0.3239038	M
## 1028	0.3731563	F
## 1029	0.3731563	F
## 1030	0.3731563	F
## 1031	0.3731563	F
## 1032	0.3239038	M
## 1033	0.3731563	F

## 1034	0.3731563	F
## 1035	0.3731563	F
## 1036	0.3239038	M
## 1037	0.3239038	M
## 1038	0.3239038	M
## 1039	0.3239038	M
## 1040	0.3239038	M
## 1041	0.3731563	F
## 1042	0.3731563	F
## 1043	0.3239038	M
## 1044	0.3731563	F
## 1045	0.3731563	F
## 1046	0.3239038	M
## 1047	0.3239038	M
## 1048	0.3239038	M
## 1049	0.3731563	F
## 1050	0.3239038	M
## 1051	0.3239038	M
## 1052	0.3239038	M
## 1053	0.3239038	M
## 1054	0.3239038	M
## 1055	0.3731563	F
## 1056	0.3731563	F
## 1057	0.3239038	M
## 1058	0.3239038	M
## 1059	0.3239038	M
## 1060	0.3239038	M
## 1061	0.3239038	M
## 1062	0.3731563	F
## 1063	0.3731563	F
## 1064	0.3239038	M
## 1065	0.3731563	F
## 1066	0.3731563	F
## 1067	0.3239038	M
## 1068	0.3731563	F
## 1069	0.3239038	M
## 1070	0.3239038	M
## 1071	0.3731563	F
## 1072	0.3731563	F
## 1073	0.3731563	F
## 1074	0.3731563	F
## 1075	0.3239038	M
## 1076	0.3239038	M
## 1077	0.3731563	F
## 1078	0.3239038	M
## 1079	0.3239038	M
## 1080	0.3731563	F
## 1081	0.3239038	M
## 1082	0.3239038	M
## 1083	0.3731563	F

## 1084	0.3239038	M
## 1085	0.3731563	F
## 1086	0.3731563	F
## 1087	0.3239038	M
## 1088	0.3239038	M
## 1089	0.3731563	F
## 1090	0.3239038	M
## 1091	0.3731563	F
## 1092	0.3239038	M
## 1093	0.3731563	F
## 1094	0.3731563	F
## 1095	0.3731563	F
## 1096	0.3731563	F
## 1097	0.3239038	M
## 1098	0.3731563	F
## 1099	0.3239038	M
## 1100	0.3239038	M
## 1101	0.3239038	M
## 1102	0.3239038	M
## 1103	0.3731563	F
## 1104	0.3731563	F
## 1105	0.3239038	M
## 1106	0.3731563	F
## 1107	0.3239038	M
## 1108	0.3239038	M
## 1109	0.3731563	F
## 1110	0.3239038	M
## 1111	0.3239038	M
## 1112	0.3239038	M
## 1113	0.3239038	M
## 1114	0.3239038	M
## 1115	0.3239038	M
## 1116	0.3239038	M
## 1117	0.3731563	F
## 1118	0.3731563	F
## 1119	0.3731563	F
## 1120	0.3239038	M
## 1121	0.3731563	F
## 1122	0.3239038	M
## 1123	0.3239038	M
## 1124	0.3239038	M
## 1125	0.3239038	M
## 1126	0.3239038	M
## 1127	0.3239038	M
## 1128	0.3731563	F
## 1129	0.3239038	M
## 1130	0.3239038	M
## 1131	0.3731563	F
## 1132	0.3731563	F
## 1133	0.3239038	M

## 1134	0.3239038	M
## 1135	0.3731563	F
## 1136	0.3731563	F
## 1137	0.3731563	F
## 1138	0.3731563	F
## 1139	0.3239038	M
## 1140	0.3239038	M
## 1141	0.3239038	M
## 1142	0.3731563	F
## 1143	0.3731563	F
## 1144	0.3731563	F
## 1145	0.3731563	F
## 1146	0.3239038	M
## 1147	0.3731563	F
## 1148	0.3731563	F
## 1149	0.3239038	M
## 1150	0.3731563	F
## 1151	0.3239038	M
## 1152	0.3239038	M
## 1153	0.3239038	M
## 1154	0.3239038	M
## 1155	0.3731563	F
## 1156	0.3731563	F
## 1157	0.3239038	M
## 1158	0.3731563	F
## 1159	0.3239038	M
## 1160	0.3731563	F
## 1161	0.3239038	M
## 1162	0.3731563	F
## 1163	0.3731563	F
## 1164	0.3239038	M
## 1165	0.3239038	M
## 1166	0.3239038	M
## 1167	0.3731563	F
## 1168	0.3731563	F
## 1169	0.3731563	F
## 1170	0.3239038	M
## 1171	0.3731563	F
## 1172	0.3731563	F
## 1173	0.3731563	F
## 1174	0.3731563	F
## 1175	0.3239038	M
## 1176	0.3239038	M
## 1177	0.3731563	F
## 1178	0.3731563	F
## 1179	0.3239038	M
## 1180	0.3731563	F
## 1181	0.3239038	M
## 1182	0.3239038	M
## 1183	0.3731563	F

## 1184	0.3731563	F
## 1185	0.3731563	F
## 1186	0.3239038	M
## 1187	0.3239038	M
## 1188	0.3239038	M
## 1189	0.3731563	F
## 1190	0.3239038	M
## 1191	0.3731563	F
## 1192	0.3239038	M
## 1193	0.3239038	M
## 1194	0.3731563	F
## 1195	0.3731563	F
## 1196	0.3731563	F
## 1197	0.3239038	M
## 1198	0.3239038	M
## 1199	0.3731563	F
## 1200	0.3731563	F
## 1201	0.3239038	M
## 1202	0.3239038	M
## 1203	0.3731563	F
## 1204	0.3731563	F
## 1205	0.3239038	M
## 1206	0.3239038	M
## 1207	0.3239038	M
## 1208	0.3731563	F
## 1209	0.3239038	M
## 1210	0.3731563	F
## 1211	0.3731563	F
## 1212	0.3239038	M
## 1213	0.3731563	F
## 1214	0.3731563	F
## 1215	0.3239038	M
## 1216	0.3239038	M
## 1217	0.3731563	F
## 1218	0.3239038	M
## 1219	0.3731563	F
## 1220	0.3239038	M
## 1221	0.3731563	F
## 1222	0.3731563	F
## 1223	0.3731563	F
## 1224	0.3239038	M
## 1225	0.3731563	F
## 1226	0.3239038	M
## 1227	0.3239038	M
## 1228	0.3239038	M
## 1229	0.3731563	F
## 1230	0.3731563	F
## 1231	0.3239038	M
## 1232	0.3731563	F
## 1233	0.3731563	F

## 1234	0.3239038	M
## 1235	0.3239038	M
## 1236	0.3239038	M
## 1237	0.3239038	M
## 1238	0.3731563	F
## 1239	0.3731563	F
## 1240	0.3239038	M
## 1241	0.3731563	F
## 1242	0.3731563	F
## 1243	0.3731563	F
## 1244	0.3239038	M
## 1245	0.3731563	F
## 1246	0.3731563	F
## 1247	0.3731563	F
## 1248	0.3731563	F
## 1249	0.3731563	F
## 1250	0.3731563	F
## 1251	0.3239038	M
## 1252	0.3239038	M
## 1253	0.3731563	F
## 1254	0.3731563	F
## 1255	0.3731563	F
## 1256	0.3731563	F
## 1257	0.3239038	M
## 1258	0.3731563	F
## 1259	0.3731563	F
## 1260	0.3731563	F
## 1261	0.3731563	F
## 1262	0.3731563	F
## 1263	0.3731563	F
## 1264	0.3239038	M
## 1265	0.3731563	F
## 1266	0.3731563	F
## 1267	0.3731563	F
## 1268	0.3731563	F
## 1269	0.3239038	M
## 1270	0.3239038	M
## 1271	0.3239038	M
## 1272	0.3239038	M
## 1273	0.3239038	M
## 1274	0.3239038	M
## 1275	0.3239038	M
## 1276	0.3239038	M
## 1277	0.3731563	F
## 1278	0.3239038	M
## 1279	0.3731563	F
## 1280	0.3239038	M
## 1281	0.3731563	F
## 1282	0.3731563	F
## 1283	0.3731563	F

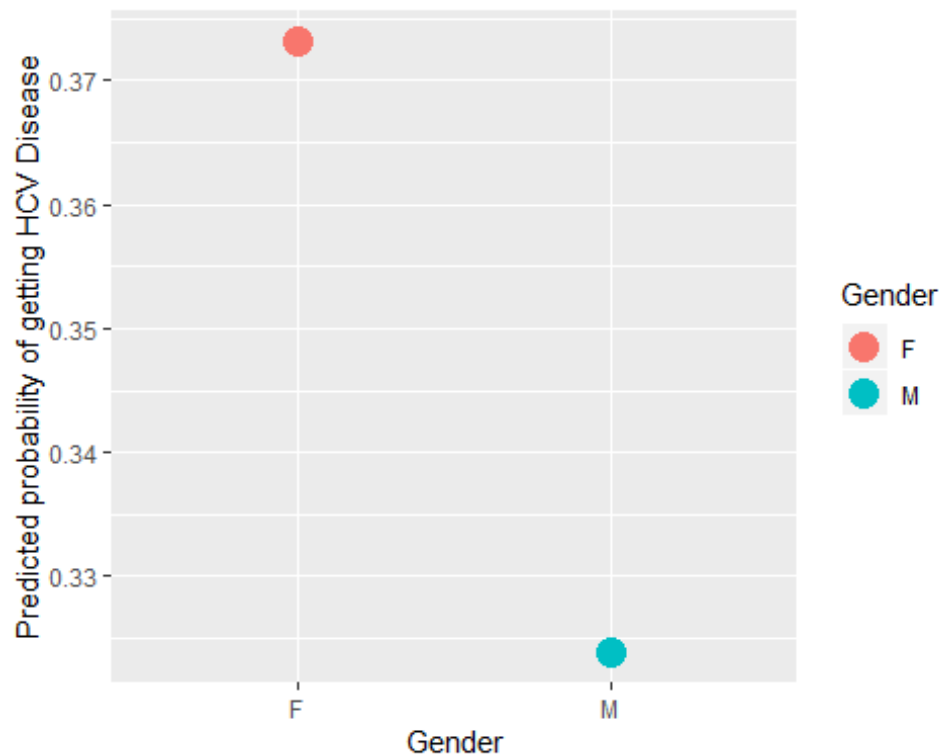
## 1284	0.3239038	M
## 1285	0.3239038	M
## 1286	0.3239038	M
## 1287	0.3731563	F
## 1288	0.3239038	M
## 1289	0.3239038	M
## 1290	0.3239038	M
## 1291	0.3731563	F
## 1292	0.3239038	M
## 1293	0.3731563	F
## 1294	0.3731563	F
## 1295	0.3239038	M
## 1296	0.3239038	M
## 1297	0.3239038	M
## 1298	0.3239038	M
## 1299	0.3731563	F
## 1300	0.3239038	M
## 1301	0.3731563	F
## 1302	0.3731563	F
## 1303	0.3731563	F
## 1304	0.3239038	M
## 1305	0.3239038	M
## 1306	0.3239038	M
## 1307	0.3239038	M
## 1308	0.3731563	F
## 1309	0.3239038	M
## 1310	0.3239038	M
## 1311	0.3731563	F
## 1312	0.3239038	M
## 1313	0.3731563	F
## 1314	0.3239038	M
## 1315	0.3239038	M
## 1316	0.3239038	M
## 1317	0.3239038	M
## 1318	0.3239038	M
## 1319	0.3239038	M
## 1320	0.3731563	F
## 1321	0.3239038	M
## 1322	0.3239038	M
## 1323	0.3731563	F
## 1324	0.3731563	F
## 1325	0.3239038	M
## 1326	0.3731563	F
## 1327	0.3731563	F
## 1328	0.3731563	F
## 1329	0.3239038	M
## 1330	0.3731563	F
## 1331	0.3239038	M
## 1332	0.3239038	M
## 1333	0.3239038	M

## 1334	0.3239038	M
## 1335	0.3239038	M
## 1336	0.3731563	F
## 1337	0.3731563	F
## 1338	0.3239038	M
## 1339	0.3239038	M
## 1340	0.3731563	F
## 1341	0.3731563	F
## 1342	0.3731563	F
## 1343	0.3239038	M
## 1344	0.3731563	F
## 1345	0.3731563	F
## 1346	0.3239038	M
## 1347	0.3731563	F
## 1348	0.3731563	F
## 1349	0.3239038	M
## 1350	0.3239038	M
## 1351	0.3239038	M
## 1352	0.3731563	F
## 1353	0.3239038	M
## 1354	0.3239038	M
## 1355	0.3239038	M
## 1356	0.3239038	M
## 1357	0.3239038	M
## 1358	0.3239038	M
## 1359	0.3239038	M
## 1360	0.3239038	M
## 1361	0.3731563	F
## 1362	0.3239038	M
## 1363	0.3731563	F
## 1364	0.3239038	M
## 1365	0.3731563	F
## 1366	0.3239038	M
## 1367	0.3239038	M
## 1368	0.3239038	M
## 1369	0.3731563	F
## 1370	0.3239038	M
## 1371	0.3731563	F
## 1372	0.3239038	M
## 1373	0.3239038	M
## 1374	0.3239038	M
## 1375	0.3239038	M
## 1376	0.3239038	M
## 1377	0.3239038	M
## 1378	0.3731563	F
## 1379	0.3239038	M
## 1380	0.3239038	M
## 1381	0.3239038	M
## 1382	0.3239038	M
## 1383	0.3239038	M

```
## 1384          0.3239038      M
## 1385          0.3731563      F
```

We can plot the data...

```
ggplot(data=predicted.data, aes(x=Gender, y=probability.of.Survivorship)) +
  geom_point(aes(color=Gender), size=5) +
  xlab("Gender") +
  ylab("Predicted probability of getting HCV Disease")
```



Since there are only two probabilities (one for females and one for males),

we can use a table to summarize the predicted probabilities.

```
xtabs(~ probability.of.Survivorship + Gender, data=predicted.data)
```

```
##
##      probability.of.Survivorship  Gender
##      0.323903818953405      F      M
##      0.373156342182894 678      0
```

#####

##

Now we will use all of the data available to predict heart disease. This is not the best way to do this

##

#####

```
logistic <- glm(Survivorship ~ ., data=data, family="binomial")
```

```
## Warning: glm.fit: algorithm did not converge
```

```
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
```

```
summary(logistic)
```

```
##
```

```
## Call:
```

```
## glm(formula = Survivorship ~ ., family = "binomial", data = data)
```

```
##
```

```
## Deviance Residuals:
```

```
##      Min       1Q   Median       3Q      Max  
## -2.001e-04 -2.100e-08 -2.100e-08  2.100e-08  2.034e-04
```

```
##
```

```
## Coefficients:
```

```
##              Estimate Std. Error z value  
## (Intercept)    -6.147e+02  6.931e+04  -0.009  
## Age            -4.518e-01  4.139e+02  -0.001  
## GenderM        -3.424e+00  1.281e+04   0.000  
## BMI            -2.747e-01  6.578e+02   0.000  
## FeverYes       8.441e+00  7.660e+03   0.001  
## Nausea.VomtingYes -1.017e+01  7.678e+03  -0.001  
## HeadacheYes    -2.229e+00  6.399e+03   0.000  
## DiarrheaYes    2.269e+00  6.636e+03   0.000  
## Fatigue...generalized.bone.acheYes 4.740e+00  9.352e+03   0.001  
## JaundiceYes    1.829e+01  5.086e+03   0.004  
## Epigastric.painYes -4.547e+00  1.172e+04   0.000  
## WBC            7.295e-04  1.239e+00   0.001  
## RBC            8.384e-06  1.097e-02   0.001  
## HGB            5.689e+00  1.694e+03   0.003  
## Plat          3.605e-05  7.103e-02   0.001  
## AST.1          1.728e-02  9.804e+01   0.000  
## ALT.1          -1.263e-01  2.944e+02   0.000  
## ALT4           2.783e-01  1.365e+02   0.002  
## ALT.12         5.809e-02  9.432e+01   0.001  
## ALT.24         1.513e-01  1.629e+02   0.001  
## ALT.36         1.265e-01  1.200e+02   0.001  
## ALT.48         1.336e-01  1.011e+02   0.001  
## ALT.after.24.w -1.292e+00  8.390e+02  -0.002  
## RNA.Base       2.232e-05  1.296e-02   0.002  
## RNA.4          -7.059e-06  6.352e-03  -0.001  
## RNA.12         1.689e-06  1.613e-02   0.000  
## RNA.EOT        1.236e-03  7.123e-02   0.017  
## RNA.EF         -2.340e-05  1.077e-02  -0.002  
## Baseline.histological.Grading4     1.320e+01  1.614e+04   0.001  
## Baseline.histological.Grading5    -3.246e+00  1.755e+04   0.000  
## Baseline.histological.Grading6     3.274e+01  3.118e+04   0.001  
## Baseline.histological.Grading7     4.915e+00  1.318e+05   0.000  
## Baseline.histological.Grading8    -5.185e-01  1.415e+04   0.000  
## Baseline.histological.Grading9     1.295e+01  6.432e+04   0.000  
## Baseline.histological.Grading10    1.530e+01  1.485e+04   0.001  
## Baseline.histological.Grading11    1.852e+01  2.826e+04   0.001
```

## Baseline.histological.Grading12	2.538e+01	1.779e+04	0.001
## Baseline.histological.Grading13	-1.473e+01	2.040e+04	-0.001
## Baseline.histological.Grading14	1.434e+01	1.784e+04	0.001
## Baseline.histological.Grading15	1.279e+01	1.579e+04	0.001
## Baseline.histological.Grading16	4.808e+01	2.328e+04	0.002
## Baselinehistological.stagingFew Septa	-1.186e+01	9.410e+03	-0.001
## Baselinehistological.stagingMany Septa	-5.362e+00	7.264e+03	-0.001
## Baselinehistological.stagingPortal Fibrosis	-9.128e+00	1.078e+04	-0.001
##	Pr(> z)		
## (Intercept)	0.993		
## Age	0.999		
## GenderM	1.000		
## BMI	1.000		
## FeverYes	0.999		
## Nausea.VomtingYes	0.999		
## HeadacheYes	1.000		
## DiarrheaYes	1.000		
## Fatigue...generalized.bone.acheYes	1.000		
## JaundiceYes	0.997		
## Epigastric.painYes	1.000		
## WBC	1.000		
## RBC	0.999		
## HGB	0.997		
## Plat	1.000		
## AST.1	1.000		
## ALT.1	1.000		
## ALT4	0.998		
## ALT.12	1.000		
## ALT.24	0.999		
## ALT.36	0.999		
## ALT.48	0.999		
## ALT.after.24.w	0.999		
## RNA.Base	0.999		
## RNA.4	0.999		
## RNA.12	1.000		
## RNA.EOT	0.986		
## RNA.EF	0.998		
## Baseline.histological.Grading4	0.999		
## Baseline.histological.Grading5	1.000		
## Baseline.histological.Grading6	0.999		
## Baseline.histological.Grading7	1.000		
## Baseline.histological.Grading8	1.000		
## Baseline.histological.Grading9	1.000		
## Baseline.histological.Grading10	0.999		
## Baseline.histological.Grading11	0.999		
## Baseline.histological.Grading12	0.999		
## Baseline.histological.Grading13	0.999		
## Baseline.histological.Grading14	0.999		
## Baseline.histological.Grading15	0.999		
## Baseline.histological.Grading16	0.998		

```

## Baselinehistological.stagingFew Septa      0.999
## Baselinehistological.stagingMany Septa      0.999
## Baselinehistological.stagingPortal Fibrosis  0.999
##
## (Dispersion parameter for binomial family taken to be 1)
##
## Null deviance: 1.790e+03 on 1384 degrees of freedom
## Residual deviance: 6.632e-07 on 1341 degrees of freedom
## AIC: 88
##
## Number of Fisher Scoring iterations: 25

## Now calculate the overall "Pseudo R-squared" and its p-value
ll.null <- logistic$null.deviance/-2
ll.proposed <- logistic$deviance/-2
## McFadden's Pseudo R^2 = [ LL(Null) - LL(Proposed) ] / LL(Null)
(ll.null - ll.proposed) / ll.null

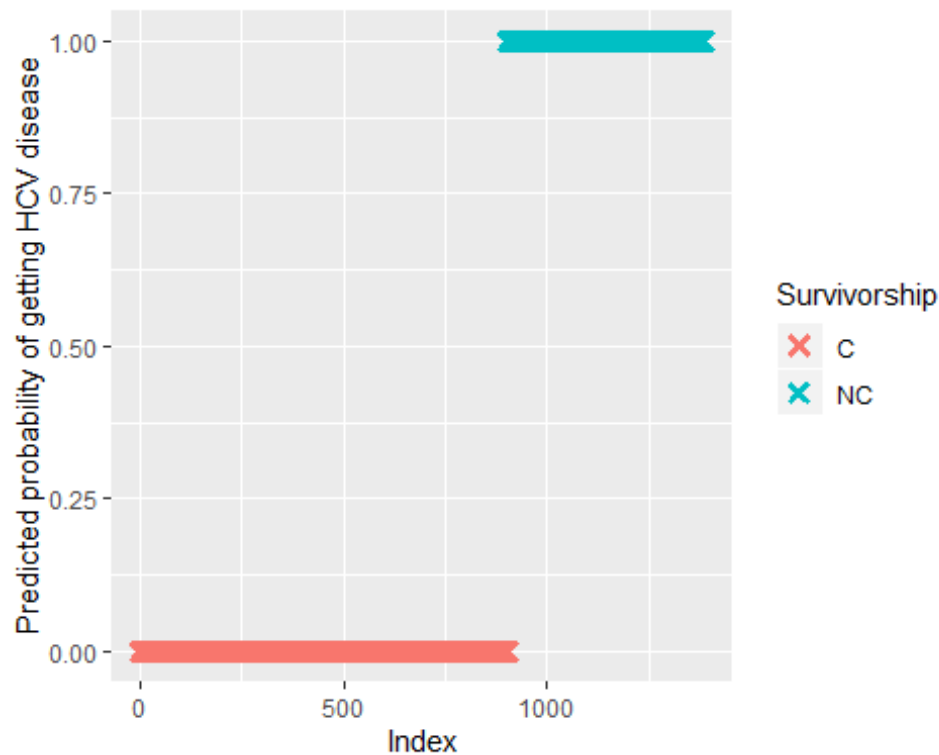
## [1] 1

## The p-value for the R^2
1 - pchisq(2*(ll.proposed - ll.null), df=(length(logistic$coefficients)-1))

## [1] 0

## now we can plot the data
predicted.data <-
data.frame(probability.of.Survivorship=logistic$fitted.values, Survivorship=data$Survivorship)
predicted.data <-
predicted.data[order(predicted.data$probability.of.Survivorship,
decreasing=FALSE),]
predicted.data$rank <- 1:nrow(predicted.data)
## Lastly, we can plot the predicted probabilities for each sample having
## heart disease and color by whether or not they actually had heart disease
ggplot(data=predicted.data, aes(x=rank, y=probability.of.Survivorship)) +
  geom_point(aes(color=Survivorship), alpha=1, shape=4, stroke=2) +
  xlab("Index") +
  ylab("Predicted probability of getting HCV disease")

```



```
# Few packages for confusion matrix. Lets look at them one by one
#install.packages("regclass",
  lib="/Library/Frameworks/R.framework/Versions/3.5/Resources/Library")
library(regclass)

## Loading required package: bestglm
## Loading required package: leaps
## Loading required package: VGAM
## Loading required package: stats4
## Loading required package: splines
## Loading required package: rpart
## Loading required package: randomForest
## randomForest 4.6-14
## Type rfNews() to see new features/changes/bug fixes.
##
## Attaching package: 'randomForest'
##
## The following object is masked from 'package:ggplot2':
##
##     margin
```

```
## The following object is masked from 'package:dplyr':
```

```
##
```

```
##      combine
```

```
## Important regclass change from 1.3:
```

```
## All functions that had a . in the name now have an _
```

```
## all.correlations -> all_correlations, cor.demo -> cor_demo, etc.
```

```
confusion_matrix(logistic)
```

```
##          Predicted C Predicted NC Total
```

```
## Actual C          903           0   903
```

```
## Actual NC           0          482   482
```

```
## Total            903          482  1385
```

```
#install.packages("caret",
```

```
lib="/Library/Frameworks/R.framework/Versions/3.5/Resources/Library")
```

```
library(caret)
```

```
## Loading required package: lattice
```

```
##
```

```
## Attaching package: 'lattice'
```

```
## The following object is masked from 'package:regclass':
```

```
##
```

```
##      qq
```

```
##
```

```
## Attaching package: 'caret'
```

```
## The following object is masked from 'package:VGAM':
```

```
##
```

```
##      predictors
```

```
pdata <- predict(logistic,newdata=data,type="response" )
```

```
pdata
```

```
##          1          2          3          4          5
```

```
## 2.220446e-16 2.220446e-16 1.000000e+00 1.000000e+00 2.220446e-16
```

```
##          6          7          8          9         10
```

```
## 2.220446e-16 2.220446e-16 2.220446e-16 2.220446e-16 2.220446e-16
```

```
##          11         12         13         14         15
```

```
## 1.000000e+00 2.220446e-16 2.220446e-16 2.220446e-16 1.000000e+00
```

```
##          16         17         18         19         20
```

```
## 1.000000e+00 2.220446e-16 2.220446e-16 1.000000e+00 1.000000e+00
```

```
##          21         22         23         24         25
```

```
## 1.000000e+00 2.220446e-16 2.220446e-16 2.220446e-16 2.220446e-16
```

```
##          26         27         28         29         30
```

```
## 2.220446e-16 1.000000e+00 1.000000e+00 2.220446e-16 2.220446e-16
```

```
##          31         32         33         34         35
```

```
## 2.220446e-16 2.220446e-16 1.000000e+00 2.220446e-16 1.000000e+00
```


##	36	37	38	39	40
##	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	41	42	43	44	45
##	1.000000e+00	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16
##	46	47	48	49	50
##	2.220446e-16	2.220446e-16	1.000000e+00	1.000000e+00	1.000000e+00
##	51	52	53	54	55
##	2.220446e-16	2.220446e-16	1.000000e+00	1.000000e+00	2.220446e-16
##	56	57	58	59	60
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00
##	61	62	63	64	65
##	2.220446e-16	2.220446e-16	1.000000e+00	1.000000e+00	1.000000e+00
##	66	67	68	69	70
##	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00	1.000000e+00
##	71	72	73	74	75
##	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00	1.000000e+00
##	76	77	78	79	80
##	2.220446e-16	2.220446e-16	1.000000e+00	1.000000e+00	2.220446e-16
##	81	82	83	84	85
##	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16	1.000000e+00
##	86	87	88	89	90
##	2.220446e-16	1.000000e+00	1.000000e+00	1.000000e+00	2.220446e-16
##	91	92	93	94	95
##	2.220446e-16	1.000000e+00	2.220446e-16	1.000000e+00	1.000000e+00
##	96	97	98	99	100
##	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16
##	101	102	103	104	105
##	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	106	107	108	109	110
##	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16
##	111	112	113	114	115
##	2.220446e-16	1.000000e+00	1.000000e+00	1.000000e+00	1.000000e+00
##	116	117	118	119	120
##	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16
##	121	122	123	124	125
##	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16
##	126	127	128	129	130
##	2.220446e-16	1.000000e+00	2.220446e-16	1.000000e+00	2.220446e-16
##	131	132	133	134	135
##	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	136	137	138	139	140
##	1.000000e+00	1.000000e+00	1.000000e+00	1.000000e+00	2.220446e-16
##	141	142	143	144	145
##	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16
##	146	147	148	149	150
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	151	152	153	154	155
##	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16
##	156	157	158	159	160
##	1.000000e+00	1.000000e+00	2.220446e-16	1.000000e+00	2.220446e-16

##	161	162	163	164	165
##	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16
##	166	167	168	169	170
##	1.000000e+00	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16
##	171	172	173	174	175
##	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16
##	176	177	178	179	180
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	181	182	183	184	185
##	2.220446e-16	2.220446e-16	1.000000e+00	1.000000e+00	2.220446e-16
##	186	187	188	189	190
##	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16
##	191	192	193	194	195
##	2.220446e-16	1.000000e+00	2.220446e-16	1.000000e+00	2.220446e-16
##	196	197	198	199	200
##	1.000000e+00	4.624073e-09	2.220446e-16	2.220446e-16	1.000000e+00
##	201	202	203	204	205
##	1.000000e+00	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16
##	206	207	208	209	210
##	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00	1.000000e+00
##	211	212	213	214	215
##	2.220446e-16	1.000000e+00	1.000000e+00	2.220446e-16	2.220446e-16
##	216	217	218	219	220
##	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16
##	221	222	223	224	225
##	2.220446e-16	2.220446e-16	1.000000e+00	1.000000e+00	2.220446e-16
##	226	227	228	229	230
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00
##	231	232	233	234	235
##	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16
##	236	237	238	239	240
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	241	242	243	244	245
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	246	247	248	249	250
##	2.220446e-16	1.000000e+00	2.220446e-16	1.000000e+00	2.220446e-16
##	251	252	253	254	255
##	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	256	257	258	259	260
##	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16
##	261	262	263	264	265
##	1.000000e+00	1.000000e+00	1.000000e+00	2.220446e-16	2.220446e-16
##	266	267	268	269	270
##	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16
##	271	272	273	274	275
##	1.000000e+00	1.000000e+00	1.000000e+00	2.220446e-16	1.000000e+00
##	276	277	278	279	280
##	1.000000e+00	1.000000e+00	2.220446e-16	2.220446e-16	1.000000e+00
##	281	282	283	284	285
##	1.226682e-12	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16

##	286	287	288	289	290
##	2.220446e-16	2.220446e-16	1.000000e+00	1.000000e+00	1.000000e+00
##	291	292	293	294	295
##	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00	1.000000e+00
##	296	297	298	299	300
##	1.400537e-08	1.000000e+00	2.220446e-16	2.220446e-16	1.000000e+00
##	301	302	303	304	305
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	306	307	308	309	310
##	1.000000e+00	1.000000e+00	2.220446e-16	1.000000e+00	1.000000e+00
##	311	312	313	314	315
##	1.000000e+00	1.000000e+00	1.000000e+00	2.220446e-16	1.000000e+00
##	316	317	318	319	320
##	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16	1.000000e+00
##	321	322	323	324	325
##	1.000000e+00	2.220446e-16	2.220446e-16	1.062546e-13	2.220446e-16
##	326	327	328	329	330
##	1.000000e+00	1.000000e+00	1.000000e+00	2.220446e-16	1.000000e+00
##	331	332	333	334	335
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	336	337	338	339	340
##	1.000000e+00	1.000000e+00	2.144440e-11	1.000000e+00	2.220446e-16
##	341	342	343	344	345
##	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16
##	346	347	348	349	350
##	1.096984e-10	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00
##	351	352	353	354	355
##	1.000000e+00	1.000000e+00	2.220446e-16	1.000000e+00	2.220446e-16
##	356	357	358	359	360
##	2.220446e-16	1.000000e+00	1.000000e+00	2.220446e-16	2.220446e-16
##	361	362	363	364	365
##	2.220446e-16	1.000000e+00	2.220446e-16	1.000000e+00	1.000000e+00
##	366	367	368	369	370
##	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16
##	371	372	373	374	375
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	376	377	378	379	380
##	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16
##	381	382	383	384	385
##	2.220446e-16	2.220446e-16	1.000000e+00	1.000000e+00	2.220446e-16
##	386	387	388	389	390
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	391	392	393	394	395
##	1.000000e+00	1.000000e+00	1.000000e+00	2.220446e-16	2.220446e-16
##	396	397	398	399	400
##	2.220446e-16	1.000000e+00	1.000000e+00	2.220446e-16	2.220446e-16
##	401	402	403	404	405
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	406	407	408	409	410
##	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00	1.000000e+00

##	411	412	413	414	415
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	416	417	418	419	420
##	1.000000e+00	1.000000e+00	1.000000e+00	2.220446e-16	1.000000e+00
##	421	422	423	424	425
##	1.000000e+00	1.000000e+00	2.220446e-16	1.000000e+00	1.000000e+00
##	426	427	428	429	430
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	431	432	433	434	435
##	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	436	437	438	439	440
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00
##	441	442	443	444	445
##	2.220446e-16	1.000000e+00	2.220446e-16	1.000000e+00	2.220446e-16
##	446	447	448	449	450
##	2.220446e-16	1.000000e+00	1.000000e+00	1.000000e+00	1.000000e+00
##	451	452	453	454	455
##	1.000000e+00	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16
##	456	457	458	459	460
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	461	462	463	464	465
##	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00	1.000000e+00
##	466	467	468	469	470
##	2.220446e-16	1.000000e+00	1.000000e+00	2.220446e-16	1.000000e+00
##	471	472	473	474	475
##	2.220446e-16	2.553865e-10	1.000000e+00	1.000000e+00	2.220446e-16
##	476	477	478	479	480
##	1.000000e+00	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16
##	481	482	483	484	485
##	2.220446e-16	1.000000e+00	1.000000e+00	2.220446e-16	1.000000e+00
##	486	487	488	489	490
##	1.000000e+00	1.000000e+00	1.000000e+00	1.000000e+00	2.220446e-16
##	491	492	493	494	495
##	2.220446e-16	1.000000e+00	2.220446e-16	6.696274e-09	2.220446e-16
##	496	497	498	499	500
##	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16	1.000000e+00
##	501	502	503	504	505
##	1.000000e+00	1.000000e+00	1.422738e-08	2.220446e-16	1.000000e+00
##	506	507	508	509	510
##	1.000000e+00	2.220446e-16	1.000000e+00	1.000000e+00	1.000000e+00
##	511	512	513	514	515
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00
##	516	517	518	519	520
##	1.000000e+00	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16
##	521	522	523	524	525
##	2.858549e-09	1.000000e+00	1.000000e+00	1.000000e+00	2.220446e-16
##	526	527	528	529	530
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	531	532	533	534	535
##	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16

##	536	537	538	539	540
##	2.220446e-16	1.000000e+00	2.220446e-16	1.000000e+00	1.000000e+00
##	541	542	543	544	545
##	1.000000e+00	1.000000e+00	2.220446e-16	1.000000e+00	2.220446e-16
##	546	547	548	549	550
##	2.220446e-16	1.000000e+00	1.000000e+00	2.220446e-16	2.220446e-16
##	551	552	553	554	555
##	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16
##	556	557	558	559	560
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	561	562	563	564	565
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	566	567	568	569	570
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	571	572	573	574	575
##	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16
##	576	577	578	579	580
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00
##	581	582	583	584	585
##	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00
##	586	587	588	589	590
##	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16
##	591	592	593	594	595
##	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16
##	596	597	598	599	600
##	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16
##	601	602	603	604	605
##	2.220446e-16	1.000000e+00	2.220446e-16	1.000000e+00	2.220446e-16
##	606	607	608	609	610
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	611	612	613	614	615
##	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16	1.000000e+00
##	616	617	618	619	620
##	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00
##	621	622	623	624	625
##	2.220446e-16	1.000000e+00	1.000000e+00	2.220446e-16	5.933679e-09
##	626	627	628	629	630
##	1.000000e+00	2.220446e-16	2.220446e-16	1.000000e+00	1.000000e+00
##	631	632	633	634	635
##	3.887578e-09	2.220446e-16	2.220446e-16	1.000000e+00	1.000000e+00
##	636	637	638	639	640
##	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	641	642	643	644	645
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	646	647	648	649	650
##	2.220446e-16	1.000000e+00	1.000000e+00	2.220446e-16	1.000000e+00
##	651	652	653	654	655
##	1.000000e+00	1.000000e+00	1.000000e+00	2.220446e-16	2.220446e-16
##	656	657	658	659	660
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00

##	661	662	663	664	665
##	1.000000e+00	1.000000e+00	1.000000e+00	2.220446e-16	2.220446e-16
##	666	667	668	669	670
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00
##	671	672	673	674	675
##	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16
##	676	677	678	679	680
##	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16	1.000000e+00
##	681	682	683	684	685
##	1.000000e+00	1.000000e+00	2.220446e-16	1.000000e+00	2.220446e-16
##	686	687	688	689	690
##	1.000000e+00	2.220446e-16	1.000000e+00	1.000000e+00	1.000000e+00
##	691	692	693	694	695
##	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16
##	696	697	698	699	700
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	701	702	703	704	705
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00
##	706	707	708	709	710
##	1.000000e+00	1.000000e+00	2.220446e-16	1.000000e+00	2.220446e-16
##	711	712	713	714	715
##	2.220446e-16	1.000000e+00	2.220446e-16	1.000000e+00	2.220446e-16
##	716	717	718	719	720
##	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	721	722	723	724	725
##	2.220446e-16	2.220446e-16	1.000000e+00	1.350791e-08	1.000000e+00
##	726	727	728	729	730
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00
##	731	732	733	734	735
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	736	737	738	739	740
##	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16
##	741	742	743	744	745
##	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16	1.000000e+00
##	746	747	748	749	750
##	2.220446e-16	1.124887e-08	2.220446e-16	2.220446e-16	2.220446e-16
##	751	752	753	754	755
##	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16	1.000000e+00
##	756	757	758	759	760
##	1.000000e+00	3.704052e-09	1.000000e+00	2.220446e-16	1.000000e+00
##	761	762	763	764	765
##	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	766	767	768	769	770
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	771	772	773	774	775
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	776	777	778	779	780
##	5.595202e-10	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16
##	781	782	783	784	785
##	2.220446e-16	1.000000e+00	1.000000e+00	1.000000e+00	1.000000e+00

##	786	787	788	789	790
##	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00
##	791	792	793	794	795
##	1.000000e+00	1.000000e+00	2.220446e-16	2.220446e-16	1.000000e+00
##	796	797	798	799	800
##	2.220446e-16	1.000000e+00	1.034868e-10	1.000000e+00	1.000000e+00
##	801	802	803	804	805
##	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	806	807	808	809	810
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	811	812	813	814	815
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	816	817	818	819	820
##	1.000000e+00	7.154129e-09	1.000000e+00	2.220446e-16	2.220446e-16
##	821	822	823	824	825
##	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00
##	826	827	828	829	830
##	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16
##	831	832	833	834	835
##	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16
##	836	837	838	839	840
##	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00	2.001750e-08
##	841	842	843	844	845
##	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16	1.000000e+00
##	846	847	848	849	850
##	2.220446e-16	1.000000e+00	2.220446e-16	1.000000e+00	2.220446e-16
##	851	852	853	854	855
##	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16
##	856	857	858	859	860
##	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	861	862	863	864	865
##	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16
##	866	867	868	869	870
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00
##	871	872	873	874	875
##	2.220446e-16	1.000000e+00	1.000000e+00	1.000000e+00	2.220446e-16
##	876	877	878	879	880
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	881	882	883	884	885
##	2.220446e-16	2.220446e-16	1.000000e+00	1.000000e+00	2.220446e-16
##	886	887	888	889	890
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00
##	891	892	893	894	895
##	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00	1.000000e+00
##	896	897	898	899	900
##	1.000000e+00	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16
##	901	902	903	904	905
##	1.000000e+00	1.000000e+00	2.220446e-16	2.220446e-16	1.000000e+00
##	906	907	908	909	910
##	1.000000e+00	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16

##	911	912	913	914	915
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	916	917	918	919	920
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	921	922	923	924	925
##	1.000000e+00	1.239056e-08	1.000000e+00	1.466301e-09	2.220446e-16
##	926	927	928	929	930
##	1.000000e+00	2.220446e-16	1.000000e+00	1.000000e+00	1.000000e+00
##	931	932	933	934	935
##	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16
##	936	937	938	939	940
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00
##	941	942	943	944	945
##	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	946	947	948	949	950
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	951	952	953	954	955
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	956	957	958	959	960
##	2.220446e-16	2.220446e-16	2.220446e-16	8.654866e-09	1.000000e+00
##	961	962	963	964	965
##	1.000000e+00	1.000000e+00	2.220446e-16	2.220446e-16	1.000000e+00
##	966	967	968	969	970
##	1.000000e+00	2.220446e-16	1.000000e+00	1.000000e+00	1.000000e+00
##	971	972	973	974	975
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00
##	976	977	978	979	980
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00
##	981	982	983	984	985
##	2.220446e-16	1.000000e+00	2.220446e-16	1.000000e+00	1.000000e+00
##	986	987	988	989	990
##	1.000000e+00	2.220446e-16	1.000000e+00	1.000000e+00	2.220446e-16
##	991	992	993	994	995
##	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16
##	996	997	998	999	1000
##	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00	1.000000e+00
##	1001	1002	1003	1004	1005
##	1.000000e+00	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16
##	1006	1007	1008	1009	1010
##	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16	1.000000e+00
##	1011	1012	1013	1014	1015
##	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16	1.000000e+00
##	1016	1017	1018	1019	1020
##	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00	1.000000e+00
##	1021	1022	1023	1024	1025
##	1.000000e+00	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16
##	1026	1027	1028	1029	1030
##	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00
##	1031	1032	1033	1034	1035
##	2.220446e-16	1.000000e+00	2.220446e-16	1.000000e+00	2.220446e-16

##	1036	1037	1038	1039	1040
##	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16
##	1041	1042	1043	1044	1045
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	1046	1047	1048	1049	1050
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00
##	1051	1052	1053	1054	1055
##	1.000000e+00	2.220446e-16	1.000000e+00	1.000000e+00	2.220446e-16
##	1056	1057	1058	1059	1060
##	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	1061	1062	1063	1064	1065
##	2.220446e-16	1.000000e+00	1.000000e+00	1.000000e+00	2.220446e-16
##	1066	1067	1068	1069	1070
##	1.000000e+00	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16
##	1071	1072	1073	1074	1075
##	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16	3.639874e-09
##	1076	1077	1078	1079	1080
##	2.220446e-16	1.000000e+00	2.220446e-16	1.000000e+00	1.000000e+00
##	1081	1082	1083	1084	1085
##	1.000000e+00	2.220446e-16	1.000000e+00	2.220446e-16	1.000000e+00
##	1086	1087	1088	1089	1090
##	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	1091	1092	1093	1094	1095
##	2.220446e-16	1.000000e+00	1.000000e+00	1.000000e+00	1.000000e+00
##	1096	1097	1098	1099	1100
##	2.220446e-16	2.220446e-16	1.000000e+00	1.000000e+00	2.220446e-16
##	1101	1102	1103	1104	1105
##	2.220446e-16	1.000000e+00	2.220446e-16	1.000000e+00	1.000000e+00
##	1106	1107	1108	1109	1110
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16
##	1111	1112	1113	1114	1115
##	1.000000e+00	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16
##	1116	1117	1118	1119	1120
##	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16
##	1121	1122	1123	1124	1125
##	1.000000e+00	1.000000e+00	1.000000e+00	1.000000e+00	1.000000e+00
##	1126	1127	1128	1129	1130
##	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16
##	1131	1132	1133	1134	1135
##	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16	1.000000e+00
##	1136	1137	1138	1139	1140
##	1.000000e+00	1.000000e+00	1.000000e+00	2.220446e-16	1.000000e+00
##	1141	1142	1143	1144	1145
##	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16
##	1146	1147	1148	1149	1150
##	2.220446e-16	2.220446e-16	1.000000e+00	1.237843e-08	1.000000e+00
##	1151	1152	1153	1154	1155
##	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16
##	1156	1157	1158	1159	1160
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00

##	1161	1162	1163	1164	1165
##	1.000000e+00	2.220446e-16	2.220446e-16	1.000000e+00	1.000000e+00
##	1166	1167	1168	1169	1170
##	1.000000e+00	1.000000e+00	2.220446e-16	1.000000e+00	2.220446e-16
##	1171	1172	1173	1174	1175
##	2.220446e-16	2.220446e-16	1.000000e+00	1.000000e+00	2.220446e-16
##	1176	1177	1178	1179	1180
##	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00	1.000000e+00
##	1181	1182	1183	1184	1185
##	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00	1.000000e+00
##	1186	1187	1188	1189	1190
##	1.000000e+00	1.000000e+00	1.000000e+00	1.000000e+00	1.000000e+00
##	1191	1192	1193	1194	1195
##	1.000000e+00	2.220446e-16	2.220446e-16	2.356545e-13	2.220446e-16
##	1196	1197	1198	1199	1200
##	2.220446e-16	1.000000e+00	2.220446e-16	4.090227e-10	2.220446e-16
##	1201	1202	1203	1204	1205
##	2.220446e-16	1.000000e+00	1.000000e+00	1.000000e+00	1.000000e+00
##	1206	1207	1208	1209	1210
##	2.220446e-16	1.000000e+00	1.000000e+00	2.220446e-16	2.220446e-16
##	1211	1212	1213	1214	1215
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	3.378042e-13
##	1216	1217	1218	1219	1220
##	2.220446e-16	2.220446e-16	1.000000e+00	1.000000e+00	1.000000e+00
##	1221	1222	1223	1224	1225
##	2.220446e-16	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16
##	1226	1227	1228	1229	1230
##	1.000000e+00	1.000000e+00	1.000000e+00	9.498026e-09	2.220446e-16
##	1231	1232	1233	1234	1235
##	1.000000e+00	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16
##	1236	1237	1238	1239	1240
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00
##	1241	1242	1243	1244	1245
##	2.220446e-16	1.000000e+00	1.000000e+00	2.220446e-16	2.220446e-16
##	1246	1247	1248	1249	1250
##	2.220446e-16	2.220446e-16	2.220446e-16	2.220446e-16	1.000000e+00
##	1251	1252	1253	1254	1255
##	2.220446e-16	1.000000e+00	2.220446e-16	1.000000e+00	2.220446e-16
##	1256	1257	1258	1259	1260
##	1.000000e+00	1.000000e+00	2.220446e-16	2.220446e-16	2.220446e-16
##	1261	1262	1263	1264	1265
##	2.220446e-16	1.000000e+00	1.000000e+00	2.220446e-16	2.220446e-16
##	1266	1267	1268	1269	1270
##	2.220446e-16	2.220446e-16	1.000000e+00	2.220446e-16	1.000000e+00
##	1271	1272	1273	1274	1275
##	2.220446e-16	2.220446e-16	1.000000e+00	1.000000e+00	2.220446e-16
##	1276	1277	1278	1279	1280
##	1.000000e+00	1.000000e+00	1.000000e+00	2.220446e-16	2.220446e-16
##	1281	1282	1283	1284	1285
##	1.000000e+00	1.000000e+00	1.000000e+00	1.000000e+00	1.000000e+00

```
##      1286      1287      1288      1289      1290
## 2.220446e-16 1.000000e+00 2.220446e-16 2.220446e-16 1.000000e+00
##      1291      1292      1293      1294      1295
## 2.220446e-16 2.220446e-16 2.220446e-16 2.220446e-16 2.220446e-16
##      1296      1297      1298      1299      1300
## 2.220446e-16 2.220446e-16 2.220446e-16 2.220446e-16 1.000000e+00
##      1301      1302      1303      1304      1305
## 1.000000e+00 2.220446e-16 2.220446e-16 1.000000e+00 2.220446e-16
##      1306      1307      1308      1309      1310
## 1.000000e+00 2.220446e-16 2.220446e-16 1.000000e+00 2.220446e-16
##      1311      1312      1313      1314      1315
## 1.000000e+00 2.220446e-16 2.220446e-16 2.220446e-16 2.220446e-16
##      1316      1317      1318      1319      1320
## 2.220446e-16 2.220446e-16 2.220446e-16 1.000000e+00 2.220446e-16
##      1321      1322      1323      1324      1325
## 1.000000e+00 2.220446e-16 1.000000e+00 2.220446e-16 2.220446e-16
##      1326      1327      1328      1329      1330
## 1.000000e+00 2.220446e-16 1.000000e+00 1.000000e+00 2.220446e-16
##      1331      1332      1333      1334      1335
## 2.220446e-16 2.220446e-16 2.220446e-16 5.198558e-12 2.220446e-16
##      1336      1337      1338      1339      1340
## 2.220446e-16 1.135848e-08 2.220446e-16 1.000000e+00 2.220446e-16
##      1341      1342      1343      1344      1345
## 1.000000e+00 2.220446e-16 2.220446e-16 1.000000e+00 1.000000e+00
##      1346      1347      1348      1349      1350
## 2.220446e-16 2.220446e-16 2.220446e-16 2.220446e-16 2.220446e-16
##      1351      1352      1353      1354      1355
## 2.220446e-16 2.220446e-16 1.000000e+00 1.000000e+00 2.220446e-16
##      1356      1357      1358      1359      1360
## 2.220446e-16 2.220446e-16 2.220446e-16 1.000000e+00 2.220446e-16
##      1361      1362      1363      1364      1365
## 2.220446e-16 1.000000e+00 2.220446e-16 1.000000e+00 1.000000e+00
##      1366      1367      1368      1369      1370
## 2.220446e-16 2.220446e-16 2.220446e-16 2.220446e-16 2.220446e-16
##      1371      1372      1373      1374      1375
## 2.220446e-16 2.220446e-16 2.220446e-16 2.220446e-16 2.220446e-16
##      1376      1377      1378      1379      1380
## 2.220446e-16 2.220446e-16 1.000000e+00 1.000000e+00 1.000000e+00
##      1381      1382      1383      1384      1385
## 2.220446e-16 2.220446e-16 1.932294e-10 2.220446e-16 2.220446e-16
```

```
data$Survivorship
```

```
##      [1] C   C   NC  NC  C   C   C   C   C   C   NC  C   C   C   NC  NC  C   C   NC  NC  NC  C   C
##      [24] C   C   C   NC  NC  C   C   C   C   NC  C   NC  NC  C   C   C   C   NC  C   C   NC  C   C
##      [47] C   NC  NC  NC  C   C   NC  NC  C   C   C   C   C   C   NC  C   C   NC  NC  NC  C   C   C
##      [70] NC  C   C   C   NC  NC  C   C   NC  NC  C   C   C   NC  C   NC  C   NC  NC  NC  C   C
##      [93] C   NC  NC  C   NC  C   C   C   NC  C   C   C   C   C   C   C   NC  C   C   NC  NC  NC
```

NC																								
##	[116]	C	C	NC	C	C	C	C	NC	C	C	C	NC	C	NC	C	NC	C	C	C	NC	NC		
NC																								
##	[139]	NC	C	C	C	NC	C	C	C	C	C	C	C	C	NC	C	C	C	NC	NC	C	NC	C	C
##	[162]	C	C	NC	C	NC	NC	C	C	C	C	NC	C	C	C	C	C	C	C	C	C	NC		
NC																								
##	[185]	C	C	NC	C	C	C	C	NC	C	NC	C	NC	C	C	C	NC	NC	C	NC	C	C	C	C
##	[208]	C	NC	NC	C	NC	NC	C	C	C	C	C	NC	C	C	C	NC	NC	C	C	C	C	C	
NC																								
##	[231]	C	C	C	NC	C	C	C	C	C	C	C	C	C	C	C	C	NC	C	NC	C	NC	C	C
##	[254]	C	C	C	NC	C	C	C	NC	NC	NC	C	C	C	NC	C	C	C	NC	NC	NC	C	NC	
NC																								
##	[277]	NC	C	C	NC	C	C	C	NC	C	C	C	NC	NC	NC	C	C	C	NC	NC	C	NC	C	C
##	[300]	NC	C	C	C	C	C	NC	NC	C	NC	NC	NC	NC	NC	C	NC	C	NC	C	C	NC	NC	C
##	[323]	C	C	C	NC	NC	NC	C	NC	C	C	C	C	C	NC	NC	C	NC	C	C	C	NC	C	C
##	[346]	C	C	C	C	NC	NC	NC	C	NC	C	C	NC	NC	C	C	C	NC	C	NC	NC	C	C	C
##	[369]	NC	C	C	C	C	C	C	C	C	C	NC	C	C	C	NC	NC	C	C	C	C	C	C	
NC																								
##	[392]	NC	NC	C	C	C	NC	NC	C	C	C	C	C	C	C	C	C	C	NC	NC	C	C	C	C
##	[415]	C	NC	NC	NC	C	NC	NC	NC	C	NC	NC	C	C	C	C	C	NC	C	C	C	C	C	C
##	[438]	C	C	NC	C	NC	C	NC	C	C	NC	NC	NC	NC	NC	NC	C	C	C	C	C	C	C	C
##	[461]	C	C	C	NC	NC	C	NC	NC	C	NC	C	C	NC	NC	C	NC	C	C	NC	C	C	NC	
NC																								
##	[484]	C	NC	NC	NC	NC	NC	C	C	NC	C	C	C	C	C	NC	C	NC	NC	NC	C	C	NC	
NC																								
##	[507]	C	NC	NC	NC	C	C	C	C	NC	NC	NC	C	C	C	C	NC	NC	NC	C	C	C	C	C
##	[530]	C	C	C	C	NC	C	C	NC	C	NC	NC	NC	NC	C	NC	C	C	NC	NC	C	C	C	C
##	[553]	C	NC	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	NC	C
##	[576]	C	C	C	C	NC	NC	C	C	C	NC	C	C	C	NC	C	C	C	C	NC	C	C	C	
NC																								
##	[599]	C	C	C	NC	C	NC	C	C	C	C	C	C	C	NC	C	C	NC	NC	C	C	C	NC	C
##	[622]	NC	NC	C	C	NC	C	C	NC	NC	C	C	C	NC	NC	NC	C	C	C	C	C	C	C	C
##	[645]	C	C	NC	NC	C	NC	NC	NC	NC	C	C	C	C	C	C	NC	NC	NC	NC	C	C	C	C
##	[668]	C	C	NC	C	C	NC	C	C	C	C	NC	C	NC	NC	NC	C	NC	C	NC	C	NC	NC	
NC																								
##	[691]	C	NC	C	C	C	C	C	C	C	C	C	C	C	C	NC	NC	NC	C	NC	C	C	NC	C
##	[714]	NC	C	NC	C	C	C	C	C	NC	C	NC	C	C	C	C	C	NC	C	C	C	C	C	C
##	[737]	C	NC	C	C	C	C	NC	C	NC	C	C	C	C	C	C	C	NC	C	NC	NC	C	NC	C
##	[760]	NC	NC	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	NC	C	C	
NC																								
##	[783]	NC	NC	NC	NC	C	C	C	NC	NC	NC	C	C	NC	C	NC	C	NC	NC	NC	C	C	C	C
##	[806]	C	C	C	C	C	C	C	C	C	C	NC	C	NC	C	C	NC	C	C	C	NC	C	C	
NC																								
##	[829]	C	C	C	NC	C	C	C	C	C	C	NC	C	C	C	NC	C	NC	C	NC	C	NC	C	C
##	[852]	NC	C	C	C	NC	C	C	C	C	C	C	NC	C	C	C	C	C	C	NC	C	NC	NC	
NC																								
##	[875]	C	C	C	C	C	C	C	C	NC	NC	C	C	C	C	C	NC	C	C	C	NC	NC	NC	C
##	[898]	NC	C	C	NC	NC	C	C	NC	NC	C	C	NC	C	C	C	C	C	C	C	C	C	C	C
##	[921]	NC	C	NC	C	C	NC	C	NC	NC	NC	C	NC	C	C	C	C	C	C	C	NC	NC	C	C
##	[944]	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	NC	NC	NC	C	C	NC	

```

NC
## [967] C NC NC NC C C C C NC C C C C NC C NC C NC NC NC C NC
NC
## [990] C C C C NC C C C C NC NC NC NC C C C C NC C C NC C C
## [1013] NC C NC C C C C NC NC NC C NC C C C NC C C C NC C NC C NC C
## [1036] C NC C C C C C C C C C C C C NC NC C NC NC C NC C C
## [1059] C C C NC NC NC C NC C NC C C NC C C C C C NC C NC NC
NC
## [1082] C NC C NC NC C C C C C NC NC NC NC C C NC NC C C NC C
NC
## [1105] NC C C C C C NC C C NC C C C C NC C NC NC NC NC NC C C
## [1128] NC C C C C NC C NC NC NC NC C NC C NC C C C C NC C
NC
## [1151] C NC C C C C C C C NC NC C C NC NC NC NC C NC C C C
NC
## [1174] NC C C C C NC NC C C C NC NC NC NC NC NC NC NC C C C C C
## [1197] NC C C C C NC NC NC NC C NC NC C C C C C C C C C NC
NC
## [1220] NC C NC C C C NC NC NC C C NC NC C C C C C C C NC C
NC
## [1243] NC C C C C C C NC C NC C NC C NC NC C C C C NC NC C C
## [1266] C C NC C NC C C NC NC C NC NC NC C C NC NC NC NC NC C NC C
## [1289] C NC C C C C C C C C C NC NC C C NC C NC C C NC C
NC
## [1312] C C C C C C C NC C NC C NC C C NC C NC NC C C C C C
## [1335] C C C C NC C NC C C NC NC C C C C C C C NC NC C C C
## [1358] C NC C C NC C NC NC C C C C C C C C C C C C NC NC
NC
## [1381] C C C C C
## Levels: C NC

```

```

#pdataF <- as.factor(ifelse(test=as.numeric(pdata>0.5) == 0, yes="Healthy",
no="Unhealthy"))

```

```

#install.packages("e1071",
Lib="/Library/Frameworks/R.framework/Versions/3.5/Resources/Library")
library(e1071)

```

```

#confusionMatrix(pdataF, data$Survivorship)

```

```

#install.packages("pROC",
Lib="/Library/Frameworks/R.framework/Versions/3.5/Resources/Library")
library(pROC)

```

```

## Type 'citation("pROC")' for a citation.

```

```

##

```

```

## Attaching package: 'pROC'

```

```

## The following objects are masked from 'package:stats':

```

```

##

```

```

## cov, smooth, var

```

```

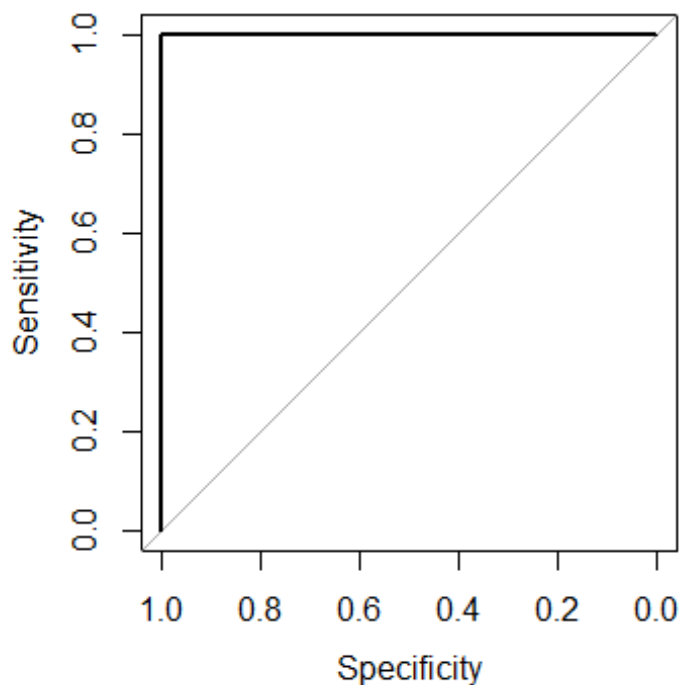
roc(data$Survivorship,logistic$fitted.values,plot=TRUE)

```

```
## Setting levels: control = C, case = NC
## Setting direction: controls < cases
##
## Call:
## roc.default(response = data$Survivorship, predictor =
logistic$fitted.values,      plot = TRUE)
##
## Data: logistic$fitted.values in 903 controls (data$Survivorship C) < 482
cases (data$Survivorship NC).
## Area under the curve: 1

par(pty = "s")
roc(data$Survivorship, logistic$fitted.values, plot=TRUE)

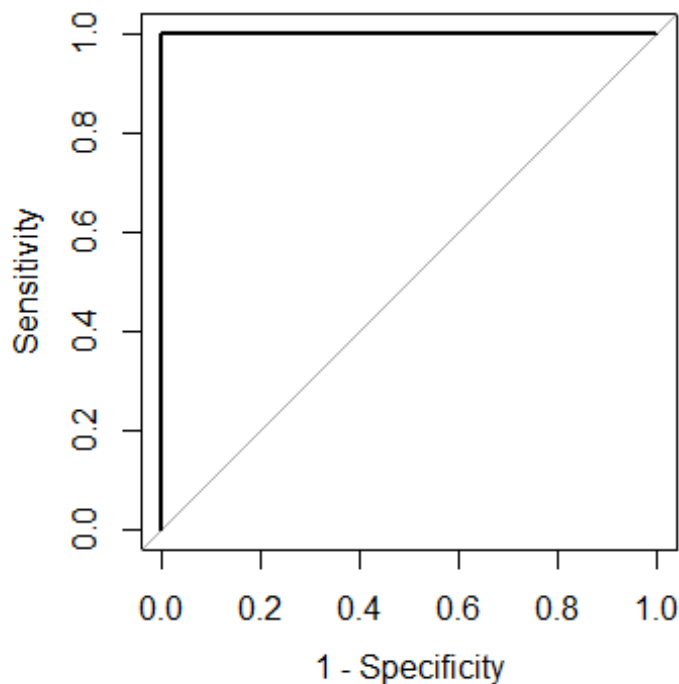
## Setting levels: control = C, case = NC
## Setting direction: controls < cases
```



```
##
## Call:
## roc.default(response = data$Survivorship, predictor =
logistic$fitted.values,      plot = TRUE)
##
## Data: logistic$fitted.values in 903 controls (data$Survivorship C) < 482
cases (data$Survivorship NC).
## Area under the curve: 1
```

```
## NOTE: By default, roc() uses specificity on the x-axis and the values
range
## from 1 to 0. This makes the graph look like what we would expect, but the
## x-axis itself might induce a headache. To use 1-specificity (i.e. the
## False Positive Rate) on the x-axis, set "legacy.axes" to TRUE.
roc(data$Survivorship, logistic$fitted.values, plot=TRUE, legacy.axes=TRUE)

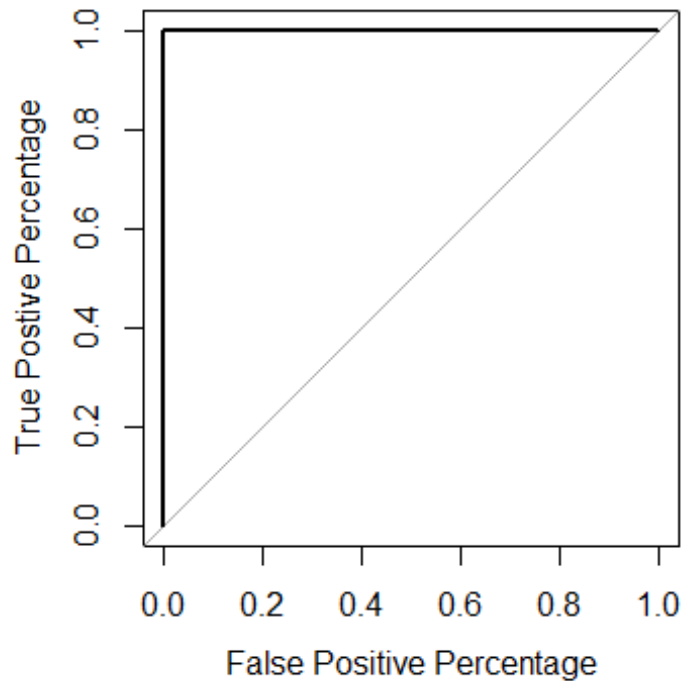
## Setting levels: control = C, case = NC
## Setting direction: controls < cases
```



```
##
## Call:
## roc.default(response = data$Survivorship, predictor =
logistic$fitted.values, plot = TRUE, legacy.axes = TRUE)
##
## Data: logistic$fitted.values in 903 controls (data$Survivorship C) < 482
cases (data$Survivorship NC).
## Area under the curve: 1

roc(data$Survivorship, logistic$fitted.values, plot=TRUE, legacy.axes=TRUE,
xlab="False Positive Percentage", ylab="True Positive Percentage")

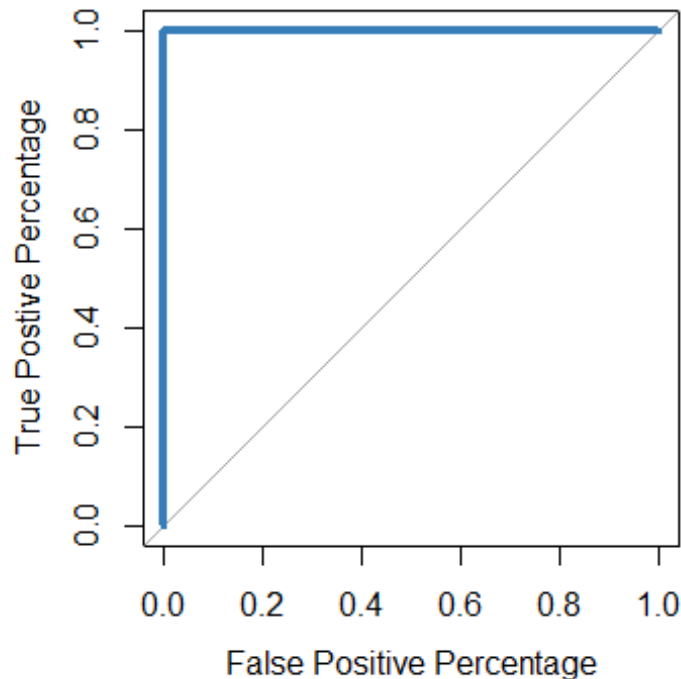
## Setting levels: control = C, case = NC
## Setting direction: controls < cases
```



```
##
## Call:
## roc.default(response = data$Survivorship, predictor =
logistic$fitted.values,      plot = TRUE, legacy.axes = TRUE, xlab = "False
Positive Percentage",      ylab = "True Postive Percentage")
##
## Data: logistic$fitted.values in 903 controls (data$Survivorship C) < 482
cases (data$Survivorship NC).
## Area under the curve: 1

roc(data$Survivorship,logistic$fitted.values,plot=TRUE, legacy.axes=TRUE,
xlab="False Positive Percentage", ylab="True Postive Percentage",
col="#377eb8", lwd=4)

## Setting levels: control = C, case = NC
## Setting direction: controls < cases
```

```
##
## Call:
## roc.default(response = data$Survivorship, predictor =
logistic$fitted.values,      plot = TRUE, legacy.axes = TRUE, xlab = "False
Positive Percentage",      ylab = "True Postive Percentage", col = "#377eb8",
lwd = 4)
##
## Data: logistic$fitted.values in 903 controls (data$Survivorship C) < 482
cases (data$Survivorship NC).
## Area under the curve: 1

roc(data$Survivorship,logistic$fitted.values,plot=TRUE, legacy.axes=TRUE,
xlab="False Positive Percentage", ylab="True Postive Percentage",
col="#377eb8", lwd=4)

## Setting levels: control = C, case = NC
## Setting direction: controls < cases

##
## Call:
## roc.default(response = data$Survivorship, predictor =
logistic$fitted.values,      plot = TRUE, legacy.axes = TRUE, xlab = "False
Positive Percentage",      ylab = "True Postive Percentage", col = "#377eb8",
lwd = 4)
##
## Data: logistic$fitted.values in 903 controls (data$Survivorship C) < 482
```

```

cases (data$Survivorship NC).
## Area under the curve: 1

## If we want to find out the optimal threshold we can store the
## data used to make the ROC graph in a variable...
roc.info <- roc(data$Survivorship, logistic$fitted.values, legacy.axes=TRUE)

## Setting levels: control = C, case = NC
## Setting direction: controls < cases

str(roc.info)

## List of 15
## $ percent          : logi FALSE
## $ sensitivities     : num [1:71] 1 1 1 1 1 1 1 1 1 1 ...
## $ specificities     : num [1:71] 0 0.966 0.967 0.968 0.969 ...
## $ thresholds       : num [1:71] -Inf 5.32e-14 1.71e-13 2.87e-13 7.82e-13
...
## $ direction        : chr "<"
## $ cases            : Named num [1:482] 1 1 1 1 1 ...
## .. attr(*, "names")= chr [1:482] "3" "4" "11" "15" ...
## $ controls         : Named num [1:903] 2.22e-16 2.22e-16 2.22e-16 2.22e-16
2.22e-16 ...
## .. attr(*, "names")= chr [1:903] "1" "2" "5" "6" ...
## $ fun.sesp         :function (thresholds, controls, cases, direction)
## $ auc              : 'auc' num 1
## .. attr(*, "partial.auc")= logi FALSE
## .. attr(*, "percent")= logi FALSE
## .. attr(*, "roc")=List of 15
## .. ..$ percent          : logi FALSE
## .. ..$ sensitivities     : num [1:71] 1 1 1 1 1 1 1 1 1 1 ...
## .. ..$ specificities     : num [1:71] 0 0.966 0.967 0.968 0.969 ...
## .. ..$ thresholds       : num [1:71] -Inf 5.32e-14 1.71e-13 2.87e-13
7.82e-13 ...
## .. ..$ direction        : chr "<"
## .. ..$ cases            : Named num [1:482] 1 1 1 1 1 ...
## .. .. .. attr(*, "names")= chr [1:482] "3" "4" "11" "15" ...
## .. ..$ controls         : Named num [1:903] 2.22e-16 2.22e-16 2.22e-16
2.22e-16 2.22e-16 ...
## .. .. .. attr(*, "names")= chr [1:903] "1" "2" "5" "6" ...
## .. ..$ fun.sesp         :function (thresholds, controls, cases,
direction)
## .. ..$ auc              : 'auc' num 1
## .. .. .. attr(*, "partial.auc")= logi FALSE
## .. .. .. attr(*, "percent")= logi FALSE
## .. .. .. attr(*, "roc")=List of 8
## .. .. .. ..$ percent          : logi FALSE
## .. .. .. ..$ sensitivities: num [1:71] 1 1 1 1 1 1 1 1 1 1 ...
## .. .. .. ..$ specificities: num [1:71] 0 0.966 0.967 0.968 0.969 ...
## .. .. .. ..$ thresholds   : num [1:71] -Inf 5.32e-14 1.71e-13 2.87e-13
7.82e-13 ...

```

```

## .. ..$ direction      : chr "<"
## .. ..$ cases           : Named num [1:482] 1 1 1 1 1 ...
## .. ..$ attr(*, "names")= chr [1:482] "3" "4" "11" "15" ...
## .. ..$ controls        : Named num [1:903] 2.22e-16 2.22e-16 2.22e-16
2.22e-16 2.22e-16 ...
## .. ..$ attr(*, "names")= chr [1:903] "1" "2" "5" "6" ...
## .. ..$ fun.sesp        :function (thresholds, controls, cases,
direction)
## .. ..$ attr(*, "class")= chr "roc"
## .. ..$ call             : language roc.default(response =
data$Survivorship, predictor = logistic$fitted.values,      legacy.axes =
TRUE)
## .. ..$ original.predictor: Named num [1:1385] 2.22e-16 2.22e-16 1.00
1.00 2.22e-16 ...
## .. ..$ attr(*, "names")= chr [1:1385] "1" "2" "3" "4" ...
## .. ..$ original.response : Factor w/ 2 levels "C","NC": 1 1 2 2 1 1 1 1
1 1 ...
## .. ..$ predictor        : Named num [1:1385] 2.22e-16 2.22e-16 1.00
1.00 2.22e-16 ...
## .. ..$ attr(*, "names")= chr [1:1385] "1" "2" "3" "4" ...
## .. ..$ response         : Factor w/ 2 levels "C","NC": 1 1 2 2 1 1 1 1
1 1 ...
## .. ..$ levels           : chr [1:2] "C" "NC"
## .. ..$ attr(*, "class")= chr "roc"
## $ call                  : language roc.default(response = data$Survivorship,
predictor = logistic$fitted.values,      legacy.axes = TRUE)
## $ original.predictor: Named num [1:1385] 2.22e-16 2.22e-16 1.00 1.00
2.22e-16 ...
## ..$ attr(*, "names")= chr [1:1385] "1" "2" "3" "4" ...
## $ original.response : Factor w/ 2 levels "C","NC": 1 1 2 2 1 1 1 1 1 1
...
## $ predictor            : Named num [1:1385] 2.22e-16 2.22e-16 1.00 1.00
2.22e-16 ...
## ..$ attr(*, "names")= chr [1:1385] "1" "2" "3" "4" ...
## $ response             : Factor w/ 2 levels "C","NC": 1 1 2 2 1 1 1 1 1 1
...
## $ levels               : chr [1:2] "C" "NC"
## - attr(*, "class")= chr "roc"

roc.df <- data.frame(tpp=roc.info$sensitivities*100, ## tpp = true positive
percentage
                    fpp=(1 - roc.info$specificities)*100, ## fpp = false
positive precentage
                    thresholds=roc.info$thresholds)
roc.df

##          tpp          fpp  thresholds
## 1  100.00000 100.0000000      -Inf
## 2  100.00000   3.4330011 5.323833e-14
## 3  100.00000   3.3222591 1.709546e-13

```

## 4	100.00000	3.2115172	2.867293e-13
## 5	100.00000	3.1007752	7.822429e-13
## 6	100.00000	2.9900332	3.212620e-12
## 7	100.00000	2.8792913	1.332148e-11
## 8	100.00000	2.7685493	6.246558e-11
## 9	100.00000	2.6578073	1.065926e-10
## 10	100.00000	2.5470653	1.514639e-10
## 11	100.00000	2.4363234	2.243080e-10
## 12	100.00000	2.3255814	3.322046e-10
## 13	100.00000	2.2148394	4.842714e-10
## 14	100.00000	2.1040975	1.012910e-09
## 15	100.00000	1.9933555	2.162425e-09
## 16	100.00000	1.8826135	3.249212e-09
## 17	100.00000	1.7718715	3.671963e-09
## 18	100.00000	1.6611296	3.795815e-09
## 19	100.00000	1.5503876	4.255825e-09
## 20	100.00000	1.4396456	5.278876e-09
## 21	100.00000	1.3289037	6.314976e-09
## 22	100.00000	1.2181617	6.925201e-09
## 23	100.00000	1.1074197	7.904498e-09
## 24	100.00000	0.9966777	9.076446e-09
## 25	100.00000	0.8859358	1.037345e-08
## 26	100.00000	0.7751938	1.130368e-08
## 27	100.00000	0.6644518	1.186846e-08
## 28	100.00000	0.5537099	1.238450e-08
## 29	100.00000	0.4429679	1.294924e-08
## 30	100.00000	0.3322259	1.375664e-08
## 31	100.00000	0.2214839	1.411637e-08
## 32	100.00000	0.1107420	1.712244e-08
## 33	100.00000	0.0000000	5.000000e-01
## 34	99.79253	0.0000000	1.000000e+00
## 35	99.58506	0.0000000	1.000000e+00
## 36	99.37759	0.0000000	1.000000e+00
## 37	99.17012	0.0000000	1.000000e+00
## 38	98.96266	0.0000000	1.000000e+00
## 39	98.75519	0.0000000	1.000000e+00
## 40	98.54772	0.0000000	1.000000e+00
## 41	98.34025	0.0000000	1.000000e+00
## 42	98.13278	0.0000000	1.000000e+00
## 43	97.92531	0.0000000	1.000000e+00
## 44	97.71784	0.0000000	1.000000e+00
## 45	97.51037	0.0000000	1.000000e+00
## 46	97.30290	0.0000000	1.000000e+00
## 47	97.09544	0.0000000	1.000000e+00
## 48	96.88797	0.0000000	1.000000e+00
## 49	96.68050	0.0000000	1.000000e+00
## 50	96.47303	0.0000000	1.000000e+00
## 51	96.26556	0.0000000	1.000000e+00
## 52	96.05809	0.0000000	1.000000e+00
## 53	95.85062	0.0000000	1.000000e+00

```
## 54 95.64315 0.000000 1.000000e+00
## 55 95.43568 0.000000 1.000000e+00
## 56 95.22822 0.000000 1.000000e+00
## 57 95.02075 0.000000 1.000000e+00
## 58 94.81328 0.000000 1.000000e+00
## 59 94.60581 0.000000 1.000000e+00
## 60 94.39834 0.000000 1.000000e+00
## 61 94.19087 0.000000 1.000000e+00
## 62 93.98340 0.000000 1.000000e+00
## 63 93.77593 0.000000 1.000000e+00
## 64 93.56846 0.000000 1.000000e+00
## 65 93.36100 0.000000 1.000000e+00
## 66 93.15353 0.000000 1.000000e+00
## 67 92.94606 0.000000 1.000000e+00
## 68 92.73859 0.000000 1.000000e+00
## 69 92.53112 0.000000 1.000000e+00
## 70 92.32365 0.000000 1.000000e+00
## 71 0.00000 0.000000 Inf
```

`head(roc.df)` *## head() will show us the values for the upper right-hand corner of the ROC graph, when the threshold is so low*

```
## tpp fpp thresholds
## 1 100 100.000000 -Inf
## 2 100 3.433001 5.323833e-14
## 3 100 3.322259 1.709546e-13
## 4 100 3.211517 2.867293e-13
## 5 100 3.100775 7.822429e-13
## 6 100 2.990033 3.212620e-12
```

(negative infinity) that every single sample is called "obese".

Thus TPP = 100% and FPP = 100%

`tail(roc.df)` *## tail() will show us the values for the lower left-hand corner*

```
## tpp fpp thresholds
## 66 93.15353 0 1
## 67 92.94606 0 1
## 68 92.73859 0 1
## 69 92.53112 0 1
## 70 92.32365 0 1
## 71 0.00000 0 Inf
```

of the ROC graph, when the threshold is so high (infinity)

that every single sample is called "not obese".

Thus, TPP = 0% and FPP = 0%

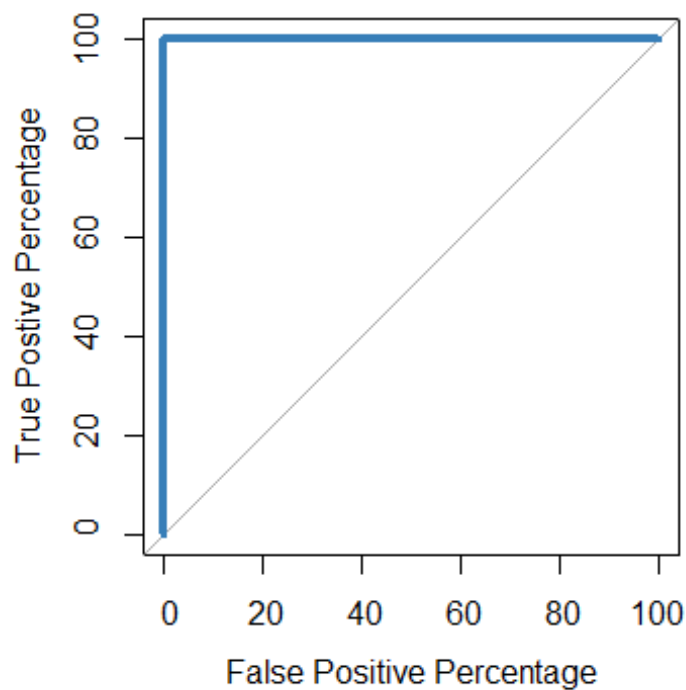
now Let's Look at the thresholds between TPP 60% and 80%

```
roc.df[roc.df$tpp > 60 & roc.df$tpp < 80,]
```

```
## [1] tpp fpp thresholds
## <0 rows> (or 0-length row.names)
```

```
roc(data$Survivorship,logistic$fitted.values,plot=TRUE, legacy.axes=TRUE,
xlab="False Positive Percentage", ylab="True Postive Percentage",
col="#377eb8", lwd=4, percent=TRUE)
```

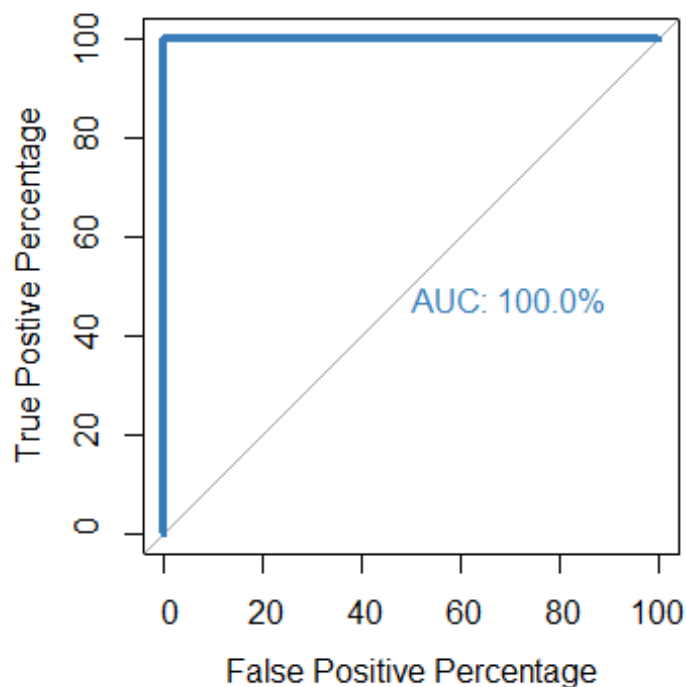
```
## Setting levels: control = C, case = NC
## Setting direction: controls < cases
```



```
##
## Call:
## roc.default(response = data$Survivorship, predictor =
logistic$fitted.values, percent = TRUE, plot = TRUE, legacy.axes = TRUE,
xlab = "False Positive Percentage", ylab = "True Postive Percentage", col
= "#377eb8", lwd = 4)
##
## Data: logistic$fitted.values in 903 controls (data$Survivorship C) < 482
cases (data$Survivorship NC).
## Area under the curve: 100%
```

```
roc(data$Survivorship,logistic$fitted.values,plot=TRUE, legacy.axes=TRUE,
xlab="False Positive Percentage", ylab="True Postive Percentage",
col="#377eb8", lwd=4, percent=TRUE, print.auc=TRUE)
```

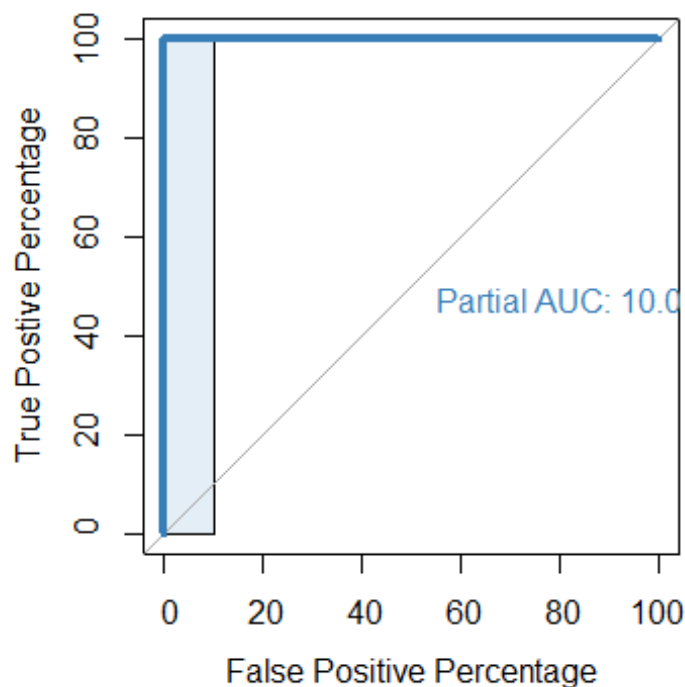
```
## Setting levels: control = C, case = NC
## Setting direction: controls < cases
```



```
##
## Call:
## roc.default(response = data$Survivorship, predictor =
logistic$fitted.values, percent = TRUE, plot = TRUE, legacy.axes = TRUE,
xlab = "False Positive Percentage", ylab = "True Postive Percentage", col
= "#377eb8", lwd = 4, print.auc = TRUE)
##
## Data: logistic$fitted.values in 903 controls (data$Survivorship C) < 482
cases (data$Survivorship NC).
## Area under the curve: 100%

roc(data$Survivorship, logistic$fitted.values, plot=TRUE, legacy.axes=TRUE,
xlab="False Positive Percentage", ylab="True Postive Percentage",
col="#377eb8", lwd=4, percent=TRUE, print.auc=TRUE, partial.auc=c(100, 90),
auc.polygon = TRUE, auc.polygon.col = "#377eb822", print.auc.x=45)

## Setting levels: control = C, case = NC
## Setting direction: controls < cases
```



```
##
## Call:
## roc.default(response = data$Survivorship, predictor =
logistic$fitted.values, percent = TRUE, plot = TRUE, legacy.axes = TRUE,
xlab = "False Positive Percentage", ylab = "True Postive Percentage", col
= "#377eb8", lwd = 4, print.auc = TRUE, partial.auc = c(100, 90),
auc.polygon = TRUE, auc.polygon.col = "#377eb822", print.auc.x = 45)
##
## Data: logistic$fitted.values in 903 controls (data$Survivorship C) < 482
cases (data$Survivorship NC).
## Partial area under the curve (specificity 100%-90%): 10%

# Lets do two roc plots to understand which model is better
roc(data$Survivorship, logistic_simple$fitted.values, plot=TRUE,
legacy.axes=TRUE, percent=TRUE, xlab="False Positive Percentage", ylab="True
Postive Percentage", col="#377eb8", lwd=4, print.auc=TRUE)

## Setting levels: control = C, case = NC
## Setting direction: controls < cases

##
## Call:
## roc.default(response = data$Survivorship, predictor =
logistic_simple$fitted.values, percent = TRUE, plot = TRUE, legacy.axes =
TRUE, xlab = "False Positive Percentage", ylab = "True Postive
Percentage", col = "#377eb8", lwd = 4, print.auc = TRUE)
##
```



```
## Data: logistic_simple$fitted.values in 903 controls (data$Survivorship C)
< 482 cases (data$Survivorship NC).
## Area under the curve: 52.71%

# Lets add the other graph
plot.roc(data$Survivorship, logistic$fitted.values, percent=TRUE,
col="#4daf4a", lwd=4, print.auc=TRUE, add=TRUE, print.auc.y=40)

## Setting levels: control = C, case = NC
## Setting direction: controls < cases

legend("bottomright", legend=c("Simple", "Non Simple"), col=c("#377eb8",
"#4daf4a"), lwd=4) # Make it user friendly
```

