

Lab_RegLogistica

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```
summary(cars)
```

```
##      speed      dist
##  Min.   : 4.0    Min.   :  2.00
##  1st Qu.:12.0    1st Qu.: 26.00
##  Median :15.0    Median : 36.00
##  Mean   :15.4    Mean   : 42.98
##  3rd Qu.:19.0    3rd Qu.: 56.00
##  Max.   :25.0    Max.   :120.00
```

```
#Carga librerias
```

```
library(corrplot)
```

```
## corrplot 0.92 loaded
```

```
library(caret)
```

```
## Loading required package: ggplot2
```

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

```
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)
```

```
#Leer archivo csv
```

```
data <- read.csv2("titanic.csv")
```

```
data
```

```
##      Passengerid  Age      Fare Sex  sibsp  Parch  Pclass  Embarked
X2urvived
## 1                1   22      7.25  0     1     0       3         2
```

0								
## 2	2	38	71.2833	1	1	0	1	0
1								
## 3	3	26	7.925	1	0	0	3	2
1								
## 4	4	35	53.1	1	1	0	1	2
1								
## 5	5	35	8.05	0	0	0	3	2
0								
## 6	6	28	8.4583	0	0	0	3	1
0								
## 7	7	54	51.8625	0	0	0	1	2
0								
## 8	8	2	21.075	0	3	1	3	2
0								
## 9	9	27	11.1333	1	0	2	3	2
1								
## 10	10	14	30.0708	1	1	0	2	0
1								
## 11	11	4	16.7	1	1	1	3	2
1								
## 12	12	58	26.55	1	0	0	1	2
1								
## 13	13	20	8.05	0	0	0	3	2
0								
## 14	14	39	31.275	0	1	5	3	2
0								
## 15	15	14	7.8542	1	0	0	3	2
0								
## 16	16	55	16	1	0	0	2	2
1								
## 17	17	2	29.125	0	4	1	3	1
0								
## 18	18	28	13	0	0	0	2	2
1								
## 19	19	31	18	1	1	0	3	2
0								
## 20	20	28	7.225	1	0	0	3	0
1								
## 21	21	35	26	0	0	0	2	2
0								
## 22	22	34	13	0	0	0	2	2
1								
## 23	23	15	8.0292	1	0	0	3	1
1								
## 24	24	28	35.5	0	0	0	1	2
1								
## 25	25	8	21.075	1	3	1	3	2
0								
## 26	26	38	31.3875	1	1	5	3	2

1								
## 27	27	28	7.225	0	0	0	3	0
0								
## 28	28	19	263	0	3	2	1	2
0								
## 29	29	28	7.8792	1	0	0	3	1
1								
## 30	30	28	7.8958	0	0	0	3	2
0								
## 31	31	40	27.7208	0	0	0	1	0
0								
## 32	32	28	146.5208	1	1	0	1	0
1								
## 33	33	28	7.75	1	0	0	3	1
1								
## 34	34	66	10.5	0	0	0	2	2
0								
## 35	35	28	82.1708	0	1	0	1	0
0								
## 36	36	42	52	0	1	0	1	2
0								
## 37	37	28	7.2292	0	0	0	3	0
1								
## 38	38	21	8.05	0	0	0	3	2
0								
## 39	39	18	18	1	2	0	3	2
0								
## 40	40	14	11.2417	1	1	0	3	0
1								
## 41	41	40	9.475	1	1	0	3	2
0								
## 42	42	27	21	1	1	0	2	2
0								
## 43	43	28	7.8958	0	0	0	3	0
0								
## 44	44	3	41.5792	1	1	2	2	0
1								
## 45	45	19	7.8792	1	0	0	3	1
1								
## 46	46	28	8.05	0	0	0	3	2
0								
## 47	47	28	15.5	0	1	0	3	1
0								
## 48	48	28	7.75	1	0	0	3	1
1								
## 49	49	28	21.6792	0	2	0	3	0
0								
## 50	50	18	17.8	1	1	0	3	2
0								
## 51	51	7	39.6875	0	4	1	3	2

0								
## 52	52	21	7.8	0	0	0	3	2
0								
## 53	53	49	76.7292	1	1	0	1	0
1								
## 54	54	29	26	1	1	0	2	2
1								
## 55	55	65	61.9792	0	0	1	1	0
0								
## 56	56	28	35.5	0	0	0	1	2
1								
## 57	57	21	10.5	1	0	0	2	2
1								
## 58	58	28.5	7.2292	0	0	0	3	0
0								
## 59	59	5	27.75	1	1	2	2	2
1								
## 60	60	11	46.9	0	5	2	3	2
0								
## 61	61	22	7.2292	0	0	0	3	0
0								
## 62	62	38	80	1	0	0	1	NA
1								
## 63	63	45	83.475	0	1	0	1	2
0								
## 64	64	4	27.9	0	3	2	3	2
0								
## 65	65	28	27.7208	0	0	0	1	0
0								
## 66	66	28	15.2458	0	1	1	3	0
1								
## 67	67	29	10.5	1	0	0	2	2
1								
## 68	68	19	8.1583	0	0	0	3	2
0								
## 69	69	17	7.925	1	4	2	3	2
1								
## 70	70	26	8.6625	0	2	0	3	2
0								
## 71	71	32	10.5	0	0	0	2	2
0								
## 72	72	16	46.9	1	5	2	3	2
0								
## 73	73	21	73.5	0	0	0	2	2
0								
## 74	74	26	14.4542	0	1	0	3	0
0								
## 75	75	32	56.4958	0	0	0	3	2
1								
## 76	76	25	7.65	0	0	0	3	2

0								
## 77	77	28	7.8958	0	0	0	3	2
0								
## 78	78	28	8.05	0	0	0	3	2
0								
## 79	79	0.83	29	0	0	2	2	2
1								
## 80	80	30	12.475	1	0	0	3	2
1								
## 81	81	22	9	0	0	0	3	2
0								
## 82	82	29	9.5	0	0	0	3	2
1								
## 83	83	28	7.7875	1	0	0	3	1
1								
## 84	84	28	47.1	0	0	0	1	2
0								
## 85	85	17	10.5	1	0	0	2	2
1								
## 86	86	33	15.85	1	3	0	3	2
1								
## 87	87	16	34.375	0	1	3	3	2
0								
## 88	88	28	8.05	0	0	0	3	2
0								
## 89	89	23	263	1	3	2	1	2
1								
## 90	90	24	8.05	0	0	0	3	2
0								
## 91	91	29	8.05	0	0	0	3	2
0								
## 92	92	20	7.8542	0	0	0	3	2
0								
## 93	93	46	61.175	0	1	0	1	2
0								
## 94	94	26	20.575	0	1	2	3	2
0								
## 95	95	59	7.25	0	0	0	3	2
0								
## 96	96	28	8.05	0	0	0	3	2
0								
## 97	97	71	34.6542	0	0	0	1	0
0								
## 98	98	23	63.3583	0	0	1	1	0
1								
## 99	99	34	23	1	0	1	2	2
1								
## 100	100	34	26	0	1	0	2	2
0								
## 101	101	28	7.8958	1	0	0	3	2

0								
## 102	102	28	7.8958	0	0	0	3	2
0								
## 103	103	21	77.2875	0	0	1	1	2
0								
## 104	104	33	8.6542	0	0	0	3	2
0								
## 105	105	37	7.925	0	2	0	3	2
0								
## 106	106	28	7.8958	0	0	0	3	2
0								
## 107	107	21	7.65	1	0	0	3	2
1								
## 108	108	28	7.775	0	0	0	3	2
1								
## 109	109	38	7.8958	0	0	0	3	2
0								
## 110	110	28	24.15	1	1	0	3	1
1								
## 111	111	47	52	0	0	0	1	2
0								
## 112	112	14.5	14.4542	1	1	0	3	0
0								
## 113	113	22	8.05	0	0	0	3	2
0								
## 114	114	20	9.825	1	1	0	3	2
0								
## 115	115	17	14.4583	1	0	0	3	0
0								
## 116	116	21	7.925	0	0	0	3	2
0								
## 117	117	70.5	7.75	0	0	0	3	1
0								
## 118	118	29	21	0	1	0	2	2
0								
## 119	119	24	247.5208	0	0	1	1	0
0								
## 120	120	2	31.275	1	4	2	3	2
0								
## 121	121	21	73.5	0	2	0	2	2
0								
## 122	122	28	8.05	0	0	0	3	2
0								
## 123	123	32.5	30.0708	0	1	0	2	0
0								
## 124	124	32.5	13	1	0	0	2	2
1								
## 125	125	54	77.2875	0	0	1	1	2
0								
## 126	126	12	11.2417	0	1	0	3	0

1								
## 127	127	28	7.75	0	0	0	3	1
0								
## 128	128	24	7.1417	0	0	0	3	2
1								
## 129	129	28	22.3583	1	1	1	3	0
1								
## 130	130	45	6.975	0	0	0	3	2
0								
## 131	131	33	7.8958	0	0	0	3	0
0								
## 132	132	20	7.05	0	0	0	3	2
0								
## 133	133	47	14.5	1	1	0	3	2
0								
## 134	134	29	26	1	1	0	2	2
1								
## 135	135	25	13	0	0	0	2	2
0								
## 136	136	23	15.0458	0	0	0	2	0
0								
## 137	137	19	26.2833	1	0	2	1	2
1								
## 138	138	37	53.1	0	1	0	1	2
0								
## 139	139	16	9.2167	0	0	0	3	2
0								
## 140	140	24	79.2	0	0	0	1	0
0								
## 141	141	28	15.2458	1	0	2	3	0
0								
## 142	142	22	7.75	1	0	0	3	2
1								
## 143	143	24	15.85	1	1	0	3	2
1								
## 144	144	19	6.75	0	0	0	3	1
0								
## 145	145	18	11.5	0	0	0	2	2
0								
## 146	146	19	36.75	0	1	1	2	2
0								
## 147	147	27	7.7958	0	0	0	3	2
1								
## 148	148	9	34.375	1	2	2	3	2
0								
## 149	149	36.5	26	0	0	2	2	2
0								
## 150	150	42	13	0	0	0	2	2
0								
## 151	151	51	12.525	0	0	0	2	2

0								
## 152	152	22	66.6	1	1	0	1	2
1								
## 153	153	55.5	8.05	0	0	0	3	2
0								
## 154	154	40.5	14.5	0	0	2	3	2
0								
## 155	155	28	7.3125	0	0	0	3	2
0								
## 156	156	51	61.3792	0	0	1	1	0
0								
## 157	157	16	7.7333	1	0	0	3	1
1								
## 158	158	30	8.05	0	0	0	3	2
0								
## 159	159	28	8.6625	0	0	0	3	2
0								
## 160	160	28	69.55	0	8	2	3	2
0								
## 161	161	44	16.1	0	0	1	3	2
0								
## 162	162	40	15.75	1	0	0	2	2
1								
## 163	163	26	7.775	0	0	0	3	2
0								
## 164	164	17	8.6625	0	0	0	3	2
0								
## 165	165	1	39.6875	0	4	1	3	2
0								
## 166	166	9	20.525	0	0	2	3	2
1								
## 167	167	28	55	1	0	1	1	2
1								
## 168	168	45	27.9	1	1	4	3	2
0								
## 169	169	28	25.925	0	0	0	1	2
0								
## 170	170	28	56.4958	0	0	0	3	2
0								
## 171	171	61	33.5	0	0	0	1	2
0								
## 172	172	4	29.125	0	4	1	3	1
0								
## 173	173	1	11.1333	1	1	1	3	2
1								
## 174	174	21	7.925	0	0	0	3	2
0								
## 175	175	56	30.6958	0	0	0	1	0
0								
## 176	176	18	7.8542	0	1	1	3	2

0								
## 177	177	28	25.4667	0	3	1	3	2
0								
## 178	178	50	28.7125	1	0	0	1	0
0								
## 179	179	30	13	0	0	0	2	2
0								
## 180	180	36	0	0	0	0	3	2
0								
## 181	181	28	69.55	1	8	2	3	2
0								
## 182	182	28	15.05	0	0	0	2	0
0								
## 183	183	9	31.3875	0	4	2	3	2
0								
## 184	184	1	39	0	2	1	2	2
1								
## 185	185	4	22.025	1	0	2	3	2
1								
## 186	186	28	50	0	0	0	1	2
0								
## 187	187	28	15.5	1	1	0	3	1
1								
## 188	188	45	26.55	0	0	0	1	2
1								
## 189	189	40	15.5	0	1	1	3	1
0								
## 190	190	36	7.8958	0	0	0	3	2
0								
## 191	191	32	13	1	0	0	2	2
1								
## 192	192	19	13	0	0	0	2	2
0								
## 193	193	19	7.8542	1	1	0	3	2
1								
## 194	194	3	26	0	1	1	2	2
1								
## 195	195	44	27.7208	1	0	0	1	0
1								
## 196	196	58	146.5208	1	0	0	1	0
1								
## 197	197	28	7.75	0	0	0	3	1
0								
## 198	198	42	8.4042	0	0	1	3	2
0								
## 199	199	28	7.75	1	0	0	3	1
1								
## 200	200	24	13	1	0	0	2	2
0								
## 201	201	28	9.5	0	0	0	3	2

0								
## 202	202	28	69.55	0	8	2	3	2
0								
## 203	203	34	6.4958	0	0	0	3	2
0								
## 204	204	45.5	7.225	0	0	0	3	0
0								
## 205	205	18	8.05	0	0	0	3	2
1								
## 206	206	2	10.4625	1	0	1	3	2
0								
## 207	207	32	15.85	0	1	0	3	2
0								
## 208	208	26	18.7875	0	0	0	3	0
1								
## 209	209	16	7.75	1	0	0	3	1
1								
## 210	210	40	31	0	0	0	1	0
1								
## 211	211	24	7.05	0	0	0	3	2
0								
## 212	212	35	21	1	0	0	2	2
1								
## 213	213	22	7.25	0	0	0	3	2
0								
## 214	214	30	13	0	0	0	2	2
0								
## 215	215	28	7.75	0	1	0	3	1
0								
## 216	216	31	113.275	1	1	0	1	0
1								
## 217	217	27	7.925	1	0	0	3	2
1								
## 218	218	42	27	0	1	0	2	2
0								
## 219	219	32	76.2917	1	0	0	1	0
1								
## 220	220	30	10.5	0	0	0	2	2
0								
## 221	221	16	8.05	0	0	0	3	2
1								
## 222	222	27	13	0	0	0	2	2
0								
## 223	223	51	8.05	0	0	0	3	2
0								
## 224	224	28	7.8958	0	0	0	3	2
0								
## 225	225	38	90	0	1	0	1	2
1								
## 226	226	22	9.35	0	0	0	3	2

0								
## 227	227	19	10.5	0	0	0	2	2
1								
## 228	228	20.5	7.25	0	0	0	3	2
0								
## 229	229	18	13	0	0	0	2	2
0								
## 230	230	28	25.4667	1	3	1	3	2
0								
## 231	231	35	83.475	1	1	0	1	2
1								
## 232	232	29	7.775	0	0	0	3	2
0								
## 233	233	59	13.5	0	0	0	2	2
0								
## 234	234	5	31.3875	1	4	2	3	2
1								
## 235	235	24	10.5	0	0	0	2	2
0								
## 236	236	28	7.55	1	0	0	3	2
0								
## 237	237	44	26	0	1	0	2	2
0								
## 238	238	8	26.25	1	0	2	2	2
1								
## 239	239	19	10.5	0	0	0	2	2
0								
## 240	240	33	12.275	0	0	0	2	2
0								
## 241	241	28	14.4542	1	1	0	3	0
0								
## 242	242	28	15.5	1	1	0	3	1
1								
## 243	243	29	10.5	0	0	0	2	2
0								
## 244	244	22	7.125	0	0	0	3	2
0								
## 245	245	30	7.225	0	0	0	3	0
0								
## 246	246	44	90	0	2	0	1	1
0								
## 247	247	25	7.775	1	0	0	3	2
0								
## 248	248	24	14.5	1	0	2	2	2
1								
## 249	249	37	52.5542	0	1	1	1	2
1								
## 250	250	54	26	0	1	0	2	2
0								
## 251	251	28	7.25	0	0	0	3	2

0								
## 252	252	29	10.4625	1	1	1	3	2
0								
## 253	253	62	26.55	0	0	0	1	2
0								
## 254	254	30	16.1	0	1	0	3	2
0								
## 255	255	41	20.2125	1	0	2	3	2
0								
## 256	256	29	15.2458	1	0	2	3	0
1								
## 257	257	28	79.2	1	0	0	1	0
1								
## 258	258	30	86.5	1	0	0	1	2
1								
## 259	259	35	512.3292	1	0	0	1	0
1								
## 260	260	50	26	1	0	1	2	2
1								
## 261	261	28	7.75	0	0	0	3	1
0								
## 262	262	3	31.3875	0	4	2	3	2
1								
## 263	263	52	79.65	0	1	1	1	2
0								
## 264	264	40	0	0	0	0	1	2
0								
## 265	265	28	7.75	1	0	0	3	1
0								
## 266	266	36	10.5	0	0	0	2	2
0								
## 267	267	16	39.6875	0	4	1	3	2
0								
## 268	268	25	7.775	0	1	0	3	2
1								
## 269	269	58	153.4625	1	0	1	1	2
1								
## 270	270	35	135.6333	1	0	0	1	2
1								
## 271	271	28	31	0	0	0	1	2
0								
## 272	272	25	0	0	0	0	3	2
1								
## 273	273	41	19.5	1	0	1	2	2
1								
## 274	274	37	29.7	0	0	1	1	0
0								
## 275	275	28	7.75	1	0	0	3	1
1								
## 276	276	63	77.9583	1	1	0	1	2

1								
## 277	277	45	7.75	1	0	0	3	2
0								
## 278	278	28	0	0	0	0	2	2
0								
## 279	279	7	29.125	0	4	1	3	1
0								
## 280	280	35	20.25	1	1	1	3	2
1								
## 281	281	65	7.75	0	0	0	3	1
0								
## 282	282	28	7.8542	0	0	0	3	2
0								
## 283	283	16	9.5	0	0	0	3	2
0								
## 284	284	19	8.05	0	0	0	3	2
1								
## 285	285	28	26	0	0	0	1	2
0								
## 286	286	33	8.6625	0	0	0	3	0
0								
## 287	287	30	9.5	0	0	0	3	2
1								
## 288	288	22	7.8958	0	0	0	3	2
0								
## 289	289	42	13	0	0	0	2	2
1								
## 290	290	22	7.75	1	0	0	3	1
1								
## 291	291	26	78.85	1	0	0	1	2
1								
## 292	292	19	91.0792	1	1	0	1	0
1								
## 293	293	36	12.875	0	0	0	2	0
0								
## 294	294	24	8.85	1	0	0	3	2
0								
## 295	295	24	7.8958	0	0	0	3	2
0								
## 296	296	28	27.7208	0	0	0	1	0
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## 297	297	23.5	7.2292	0	0	0	3	0
0								
## 298	298	2	151.55	1	1	2	1	2
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## 299	299	28	30.5	0	0	0	1	2
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## 300	300	50	247.5208	1	0	1	1	0
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## 301	301	28	7.75	1	0	0	3	1

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## 302	302	28	23.25	0	2	0	3	1
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## 303	303	19	0	0	0	0	3	2
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## 304	304	28	12.35	1	0	0	2	1
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## 305	305	28	8.05	0	0	0	3	2
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## 306	306	0.92	151.55	0	1	2	1	2
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## 307	307	28	110.8833	1	0	0	1	0
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## 308	308	17	108.9	1	1	0	1	0
1								
## 309	309	30	24	0	1	0	2	0
0								
## 310	310	30	56.9292	1	0	0	1	0
1								
## 311	311	24	83.1583	1	0	0	1	0
1								
## 312	312	18	262.375	1	2	2	1	0
1								
## 313	313	26	26	1	1	1	2	2
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## 314	314	28	7.8958	0	0	0	3	2
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## 315	315	43	26.25	0	1	1	2	2
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## 316	316	26	7.8542	1	0	0	3	2
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## 317	317	24	26	1	1	0	2	2
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## 318	318	54	14	0	0	0	2	2
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## 319	319	31	164.8667	1	0	2	1	2
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## 320	320	40	134.5	1	1	1	1	0
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## 324	324	22	29	1	1	1	2	2
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## 329	329	31	20.525	1	1	1	3	2
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## 339	339	45	8.05	0	0	0	3	2
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## 340	340	45	35.5	0	0	0	1	2
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## 347	347	40	13	1	0	0	2	2
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## 351	351	23	9.225	0	0	0	3	2

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## 368	368	28	7.2292	1	0	0	3	0
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## 383	383	32	7.925	0	0	0	3	2
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## 401	401	39	7.925	0	0	0	3	2

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## 409	409	21	7.775	0	0	0	3	2
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## 460	460	28	7.75	0	0	0	3	1
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## 462	462	34	8.05	0	0	0	3	2
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## 507	507	33	26	1	0	2	2	2
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## 524	524	44	57.9792	1	0	1	1	0
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## 525	525	28	7.2292	0	0	0	3	0
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## 608	608	27	30.5	0	0	0	1	2
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## 609	609	22	41.5792	1	1	2	2	0
1								
## 610	610	40	153.4625	1	0	0	1	2
1								
## 611	611	39	31.275	1	1	5	3	2
0								
## 612	612	28	7.05	0	0	0	3	2
0								
## 613	613	28	15.5	1	1	0	3	1
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## 614	614	28	7.75	0	0	0	3	1
0								
## 615	615	35	8.05	0	0	0	3	2
0								
## 616	616	24	65	1	1	2	2	2
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## 617	617	34	14.4	0	1	1	3	2
0								
## 618	618	26	16.1	1	1	0	3	2
0								
## 619	619	4	39	1	2	1	2	2
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## 620	620	26	10.5	0	0	0	2	2
0								
## 621	621	27	14.4542	0	1	0	3	0
0								
## 622	622	42	52.5542	0	1	0	1	2
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## 623	623	20	15.7417	0	1	1	3	0
1								
## 624	624	21	7.8542	0	0	0	3	2
0								
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0								
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0								
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0								
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0								
## 630	630	28	7.7333	0	0	0	3	1
0								
## 631	631	80	30	0	0	0	1	2
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## 632	632	51	7.0542	0	0	0	3	2
0								
## 633	633	32	30.5	0	0	0	1	0
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## 634	634	28	0	0	0	0	1	2
0								
## 635	635	9	27.9	1	3	2	3	2
0								
## 636	636	28	13	1	0	0	2	2
1								
## 637	637	32	7.925	0	0	0	3	2
0								
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0								
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0								
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0								
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0								
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## 643	643	2	27.9	1	3	2	3	2
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0								
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## 651	651	28	7.8958	0	0	0	3	2

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0								
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## 655	655	18	6.75	1	0	0	3	1
0								
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0								
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0								
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## 661	661	50	133.65	0	2	0	1	2
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## 662	662	40	7.225	0	0	0	3	0
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0								
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0								
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## 666	666	32	73.5	0	2	0	2	2
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## 667	667	25	13	0	0	0	2	2
0								
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## 669	669	43	8.05	0	0	0	3	2
0								
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## 671	671	40	39	1	1	1	2	2
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## 672	672	31	52	0	1	0	1	2
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0								
## 674	674	31	13	0	0	0	2	2
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## 675	675	28	0	0	0	0	2	2
0								
## 676	676	18	7.775	0	0	0	3	2

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## 677	677	24.5	8.05	0	0	0	3	2
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## 683	683	20	9.225	0	0	0	3	2
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0								
## 685	685	60	39	0	1	1	2	2
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## 686	686	25	41.5792	0	1	2	2	0
0								
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0								
## 689	689	18	7.7958	0	0	0	3	2
0								
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1								
## 693	693	28	56.4958	0	0	0	3	2
1								
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0								
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0								
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## 699	699	49	110.8833	0	1	1	1	0
0								
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## 703	703	18	14.4542	1	0	1	3	0
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## 708	708	42	26.2875	0	0	0	1	2
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## 709	709	22	151.55	1	0	0	1	2
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## 711	711	24	49.5042	1	0	0	1	0
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## 712	712	28	26.55	0	0	0	1	2
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## 714	714	29	9.4833	0	0	0	3	2
0								
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0								
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1								
## 719	719	28	15.5	0	0	0	3	1
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## 722	722	17	7.0542	0	1	0	3	2
0								
## 723	723	34	13	0	0	0	2	2
0								
## 724	724	50	13	0	0	0	2	2
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## 725	725	27	53.1	0	1	0	1	2
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## 726	726	20	8.6625	0	0	0	3	2

0								
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## 728	728	28	7.7375	1	0	0	3	1
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## 729	729	25	26	0	1	0	2	2
0								
## 730	730	25	7.925	1	1	0	3	2
0								
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1								
## 732	732	11	18.7875	0	0	0	3	0
0								
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0								
## 734	734	23	13	0	0	0	2	2
0								
## 735	735	23	13	0	0	0	2	2
0								
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0								
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0								
## 738	738	35	512.3292	0	0	0	1	0
1								
## 739	739	28	7.8958	0	0	0	3	2
0								
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0								
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0								
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## 744	744	24	16.1	0	1	0	3	2
0								
## 745	745	31	7.925	0	0	0	3	2
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## 746	746	70	71	0	1	1	1	2
0								
## 747	747	16	20.25	0	1	1	3	2
0								
## 748	748	30	13	1	0	0	2	2
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## 749	749	19	53.1	0	1	0	1	2
0								
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## 753	753	33	9.5	0	0	0	3	2
0								
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## 756	756	0.67	14.5	0	1	1	2	2
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## 757	757	28	7.7958	0	0	0	3	2
0								
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0								
## 759	759	34	8.05	0	0	0	3	2
0								
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0								
## 762	762	41	7.125	0	0	0	3	2
0								
## 763	763	20	7.2292	0	0	0	3	0
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## 764	764	36	120	1	1	2	1	2
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## 765	765	16	7.775	0	0	0	3	2
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0								
## 768	768	30.5	7.75	1	0	0	3	1
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0								
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0								
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0								
## 774	774	28	7.225	0	0	0	3	0
0								
## 775	775	54	23	1	1	3	2	2
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## 776	776	18	7.75	0	0	0	3	2

0								
## 777	777	28	7.75	0	0	0	3	1
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## 778	778	5	12.475	1	0	0	3	2
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## 779	779	28	7.7375	0	0	0	3	1
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## 781	781	13	7.2292	1	0	0	3	0
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## 782	782	17	57	1	1	0	1	2
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## 783	783	29	30	0	0	0	1	2
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## 784	784	28	23.45	0	1	2	3	2
0								
## 785	785	25	7.05	0	0	0	3	2
0								
## 786	786	25	7.25	0	0	0	3	2
0								
## 787	787	18	7.4958	1	0	0	3	2
1								
## 788	788	8	29.125	0	4	1	3	1
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## 790	790	46	79.2	0	0	0	1	0
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## 791	791	28	7.75	0	0	0	3	1
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## 793	793	28	69.55	1	8	2	3	2
0								
## 794	794	28	30.6958	0	0	0	1	0
0								
## 795	795	25	7.8958	0	0	0	3	2
0								
## 796	796	39	13	0	0	0	2	2
0								
## 797	797	49	25.9292	1	0	0	1	2
1								
## 798	798	31	8.6833	1	0	0	3	2
1								
## 799	799	30	7.2292	0	0	0	3	0
0								
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## 801	801	34	13	0	0	0	2	2

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## 803	803	11	120	0	1	2	1	2
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## 804	804	0.42	8.5167	0	0	1	3	0
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## 805	805	27	6.975	0	0	0	3	2
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## 806	806	31	7.775	0	0	0	3	2
0								
## 807	807	39	0	0	0	0	1	2
0								
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0								
## 810	810	33	53.1	1	1	0	1	2
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## 811	811	26	7.8875	0	0	0	3	2
0								
## 812	812	39	24.15	0	0	0	3	2
0								
## 813	813	35	10.5	0	0	0	2	2
0								
## 814	814	6	31.275	1	4	2	3	2
0								
## 815	815	30.5	8.05	0	0	0	3	2
0								
## 816	816	28	0	0	0	0	1	2
0								
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0								
## 818	818	31	37.0042	0	1	1	2	0
0								
## 819	819	43	6.45	0	0	0	3	2
0								
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0								
## 821	821	52	93.5	1	1	1	1	2
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1								
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## 825	825	2	39.6875	0	4	1	3	2
0								
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## 827	827	28	56.4958	0	0	0	3	2
0								
## 828	828	1	37.0042	0	0	2	2	0
1								
## 829	829	28	7.75	0	0	0	3	1
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0								
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0								
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0								
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1								
## 837	837	21	8.6625	0	0	0	3	2
0								
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0								
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## 840	840	28	29.7	0	0	0	1	0
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## 844	844	34.5	6.4375	0	0	0	3	0
0								
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0								
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0								
## 847	847	28	69.55	0	8	2	3	2
0								
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0								
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0								
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## 864	864	28	69.55	1	8	2	3	2
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## 866	866	42	13	1	0	0	2	2
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## 867	867	27	13.8583	1	1	0	2	0
1								
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0								
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0								
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## 873	873	33	5	0	0	0	1	2
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## 874	874	47	9	0	0	0	3	2
0								
## 875	875	28	24	1	1	0	2	0
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## 876	876	15	7.225	1	0	0	3	0

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## 877	877	20	9.8458	0	0	0	3	2
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0								
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## 882	882	33	7.8958	0	0	0	3	2
0								
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0								
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0								
## 885	885	25	7.05	0	0	0	3	2
0								
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0								
## 887	887	27	13	0	0	0	2	2
0								
## 888	888	19	30	1	0	0	1	2
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## 889	889	28	23.45	1	1	2	3	2
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## 891	891	32	7.75	0	0	0	3	1
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## 892	892	34.5	7.8292	0	0	0	3	1
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0								
## 894	894	62	9.6875	0	0	0	2	1
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0								
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0								
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0								
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0								
## 901	901	21	24.15	0	2	0	3	2

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0								
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0								
## 905	905	63	26	0	1	0	2	2
0								
## 906	906	47	61.175	1	1	0	1	2
0								
## 907	907	24	27.7208	1	1	0	2	0
0								
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0								
## 909	909	21	7.225	0	0	0	3	0
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0								
## 911	911	45	7.225	1	0	0	3	0
0								
## 912	912	55	59.4	0	1	0	1	0
0								
## 913	913	9	3.1708	0	0	1	3	2
0								
## 914	914	28	31.6833	1	0	0	1	2
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## 915	915	21	61.3792	0	0	1	1	0
0								
## 916	916	48	262.375	1	1	3	1	0
0								
## 917	917	50	14.5	0	1	0	3	2
0								
## 918	918	22	61.9792	1	0	1	1	0
0								
## 919	919	22.5	7.225	0	0	0	3	0
0								
## 920	920	41	30.5	0	0	0	1	2
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## 921	921	28	21.6792	0	2	0	3	0
0								
## 922	922	50	26	0	1	0	2	2
0								
## 923	923	24	31.5	0	2	0	2	2
0								
## 924	924	33	20.575	1	1	2	3	2
0								
## 925	925	28	23.45	1	1	2	3	2
0								
## 926	926	30	57.75	0	1	0	1	0

0								
## 927	927	18.5	7.2292	0	0	0	3	0
0								
## 928	928	28	8.05	1	0	0	3	2
0								
## 929	929	21	8.6625	1	0	0	3	2
0								
## 930	930	25	9.5	0	0	0	3	2
0								
## 931	931	28	56.4958	0	0	0	3	2
0								
## 932	932	39	13.4167	0	0	1	3	0
0								
## 933	933	28	26.55	0	0	0	1	2
0								
## 934	934	41	7.85	0	0	0	3	2
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## 935	935	30	13	1	0	0	2	2
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## 936	936	45	52.5542	1	1	0	1	2
0								
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0								
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0								
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0								
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0								
## 943	943	27	15.0333	0	0	0	2	0
0								
## 944	944	20	23	1	2	1	2	2
0								
## 945	945	28	263	1	3	2	1	2
0								
## 946	946	28	15.5792	0	0	0	2	0
0								
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0								
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0								
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## 970	970	30	13	0	0	0	2	2
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0								
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0								
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0								
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## 1100	1100	33	27.7208	1	0	0	1	0
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## 1101	1101	25	7.8958	0	0	0	3	2

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## 1122	1122	14	65	0	0	0	2	2
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## 1129	1129	20	7.225	0	0	0	3	0
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0								
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## 1179	1179	24	82.2667	0	1	0	1	2
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0								
## 1188	1188	1	41.5792	1	1	2	2	0
0								
## 1189	1189	28	21.6792	0	2	0	3	0
0								
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0								
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0								
## 1192	1192	32	7.775	0	0	0	3	2
0								
## 1193	1193	28	15.0458	0	0	0	2	0
0								
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0								
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0								
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## 1198	1198	30	151.55	0	1	2	1	2
0								
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0								
## 1200	1200	55	93.5	0	1	1	1	2
0								
## 1201	1201	45	14.1083	1	1	0	3	2

0								
## 1202	1202	18	8.6625	0	0	0	3	2
0								
## 1203	1203	22	7.225	0	0	0	3	0
0								
## 1204	1204	28	7.575	0	0	0	3	2
0								
## 1205	1205	37	7.75	1	0	0	3	1
0								
## 1206	1206	55	135.6333	1	0	0	1	0
0								
## 1207	1207	17	7.7333	1	0	0	3	1
0								
## 1208	1208	57	146.5208	0	1	0	1	0
0								
## 1209	1209	19	10.5	0	0	0	2	2
0								
## 1210	1210	27	7.8542	0	0	0	3	2
0								
## 1211	1211	22	31.5	0	2	0	2	2
0								
## 1212	1212	26	7.775	0	0	0	3	2
0								
## 1213	1213	25	7.2292	0	0	0	3	0
0								
## 1214	1214	26	13	0	0	0	2	2
0								
## 1215	1215	33	26.55	0	0	0	1	2
0								
## 1216	1216	39	211.3375	1	0	0	1	2
0								
## 1217	1217	23	7.05	0	0	0	3	2
0								
## 1218	1218	12	39	1	2	1	2	2
0								
## 1219	1219	46	79.2	0	0	0	1	0
0								
## 1220	1220	29	26	0	1	0	2	2
0								
## 1221	1221	21	13	0	0	0	2	2
0								
## 1222	1222	48	36.75	1	0	2	2	2
0								
## 1223	1223	39	29.7	0	0	0	1	0
0								
## 1224	1224	28	7.225	0	0	0	3	0
0								
## 1225	1225	19	15.7417	1	1	1	3	0
0								
## 1226	1226	27	7.8958	0	0	0	3	2

0								
## 1227	1227	30	26	0	0	0	1	2
0								
## 1228	1228	32	13	0	0	0	2	2
0								
## 1229	1229	39	7.2292	0	0	2	3	0
0								
## 1230	1230	25	31.5	0	0	0	2	2
0								
## 1231	1231	28	7.2292	0	0	0	3	0
0								
## 1232	1232	18	10.5	0	0	0	2	2
0								
## 1233	1233	32	7.5792	0	0	0	3	2
0								
## 1234	1234	28	69.55	0	1	9	3	2
0								
## 1235	1235	58	512.3292	1	0	1	1	0
0								
## 1236	1236	28	14.5	0	1	1	3	2
0								
## 1237	1237	16	7.65	1	0	0	3	2
0								
## 1238	1238	26	13	0	0	0	2	2
0								
## 1239	1239	38	7.2292	1	0	0	3	0
0								
## 1240	1240	24	13.5	0	0	0	2	2
0								
## 1241	1241	31	21	1	0	0	2	2
0								
## 1242	1242	45	63.3583	1	0	1	1	0
0								
## 1243	1243	25	10.5	0	0	0	2	2
0								
## 1244	1244	18	73.5	0	0	0	2	2
0								
## 1245	1245	49	65	0	1	2	2	2
0								
## 1246	1246	0.17	20.575	1	1	2	3	2
0								
## 1247	1247	50	26	0	0	0	1	2
0								
## 1248	1248	59	51.4792	1	2	0	1	2
0								
## 1249	1249	28	7.8792	0	0	0	3	2
0								
## 1250	1250	28	7.75	0	0	0	3	1
0								
## 1251	1251	30	15.55	1	1	0	3	2

0								
## 1252	1252	14.5	69.55	0	8	2	3	2
0								
## 1253	1253	24	37.0042	1	1	1	2	0
0								
## 1254	1254	31	21	1	0	0	2	2
0								
## 1255	1255	27	8.6625	0	0	0	3	2
0								
## 1256	1256	25	55.4417	1	1	0	1	0
0								
## 1257	1257	28	69.55	1	1	9	3	2
0								
## 1258	1258	28	14.4583	0	1	0	3	0
0								
## 1259	1259	22	39.6875	1	0	0	3	2
0								
## 1260	1260	45	59.4	1	0	1	1	0
0								
## 1261	1261	29	13.8583	0	0	0	2	0
0								
## 1262	1262	21	11.5	0	1	0	2	2
0								
## 1263	1263	31	134.5	1	0	0	1	0
0								
## 1264	1264	49	0	0	0	0	1	2
0								
## 1265	1265	44	13	0	0	0	2	2
0								
## 1266	1266	54	81.8583	1	1	1	1	2
0								
## 1267	1267	45	262.375	1	0	0	1	0
0								
## 1268	1268	22	8.6625	1	2	0	3	2
0								
## 1269	1269	21	11.5	0	0	0	2	2
0								
## 1270	1270	55	50	0	0	0	1	2
0								
## 1271	1271	5	31.3875	0	4	2	3	2
0								
## 1272	1272	28	7.75	0	0	0	3	1
0								
## 1273	1273	26	7.8792	0	0	0	3	1
0								
## 1274	1274	28	14.5	1	0	0	3	2
0								
## 1275	1275	19	16.1	1	1	0	3	2
0								
## 1276	1276	28	12.875	0	0	0	2	2

0								
## 1277	1277	24	65	1	1	2	2	2
0								
## 1278	1278	24	7.775	0	0	0	3	2
0								
## 1279	1279	57	13	0	0	0	2	2
0								
## 1280	1280	21	7.75	0	0	0	3	1
0								
## 1281	1281	6	21.075	0	3	1	3	2
0								
## 1282	1282	23	93.5	0	0	0	1	2
0								
## 1283	1283	51	39.4	1	0	1	1	2
0								
## 1284	1284	13	20.25	0	0	2	3	2
0								
## 1285	1285	47	10.5	0	0	0	2	2
0								
## 1286	1286	29	22.025	0	3	1	3	2
0								
## 1287	1287	18	60	1	1	0	1	2
0								
## 1288	1288	24	7.25	0	0	0	3	1
0								
## 1289	1289	48	79.2	1	1	1	1	0
0								
## 1290	1290	22	7.775	0	0	0	3	2
0								
## 1291	1291	31	7.7333	0	0	0	3	1
0								
## 1292	1292	30	164.8667	1	0	0	1	2
0								
## 1293	1293	38	21	0	1	0	2	2
0								
## 1294	1294	22	59.4	1	0	1	1	0
0								
## 1295	1295	17	47.1	0	0	0	1	2
0								
## 1296	1296	43	27.7208	0	1	0	1	0
0								
## 1297	1297	20	13.8625	0	0	0	2	0
0								
## 1298	1298	23	10.5	0	1	0	2	2
0								
## 1299	1299	50	211.5	0	1	1	1	0
0								
## 1300	1300	28	7.7208	1	0	0	3	1
0								
## 1301	1301	3	13.775	1	1	1	3	2

```

0
## 1302      1302  28    7.75  1    0    0    3    1
0
## 1303      1303  37    90    1    1    0    1    1
0
## 1304      1304  28    7.775  1    0    0    3    2
0
## 1305      1305  28    8.05  0    0    0    3    2
0
## 1306      1306  39   108.9  1    0    0    1    0
0
## 1307      1307 38.5    7.25  0    0    0    3    2
0
## 1308      1308  28    8.05  0    0    0    3    2
0
## 1309      1309  28  22.3583  0    1    1    3    0
0

```

```
summary(data)
```

```

##   Passengerid      Age      Fare      Sex
##   Min.   : 1   Length:1309   Length:1309   Min.   :0.000
##   1st Qu.: 328   Class :character   Class :character   1st Qu.:0.000
##   Median : 655   Mode  :character   Mode  :character   Median :0.000
##   Mean   : 655
##   3rd Qu.: 982
##   Max.   :1309
##
##      sibsp      Parch      Pclass      Embarked
##   Min.   :0.0000   Min.   :0.000   Min.   :1.000   Min.   :0.000
##   1st Qu.:0.0000   1st Qu.:0.000   1st Qu.:2.000   1st Qu.:1.000
##   Median :0.0000   Median :0.000   Median :3.000   Median :2.000
##   Mean   :0.4989   Mean   :0.385   Mean   :2.295   Mean   :1.493
##   3rd Qu.:1.0000   3rd Qu.:0.000   3rd Qu.:3.000   3rd Qu.:2.000
##   Max.   :8.0000   Max.   :9.000   Max.   :3.000   Max.   :2.000
##
##      X2urvived
##   Min.   :0.0000
##   1st Qu.:0.0000
##   Median :0.0000
##   Mean   :0.2613
##   3rd Qu.:1.0000
##   Max.   :1.0000
##

```

#Crear la funcion para determinar NA si es que existen

```

DetectarNA <- function(data, tipo)
{

```

```

#Determinar que columnas tienen datos faltantes
colNA <- colnames(data)[!complete.cases(t(data))]
# 1.2 substraer las columnas con datos faltanes
IncompleteData <- data %>%
  select(colNA)

#1.3 calcular porcentaje de datos faltantes apply(datos faltantes, 1
fila o 2 column, funcion )

PorcentajeNA <- as.data.frame(apply(IncompleteData,2,function(col)
sum(is.na(col))/ length(col) ))
colnames(PorcentajeNA) <- c("Porcentaje")
PorcentajeNA

#Determinar columnas que si son procesables (las que cumplen con
valores abajo del 5%)

colPros <- PorcentajeNA %>%
  filter(PorcentajeNA <= 0.06)
colPros

if(tipo == 0)
{
  return(ColumnasProcesables)
}
else
{
  return(ColumnasNoProcesables)
}
}

data2 <- data
DataImputatio <- function(data2, colname, tipo) {
  if (tipo == "media"){
    data2[,colname] <- ifelse(is.na(data2[,colname]),
                             mean(data2[,colname],na.rm=T),
                             data1[,colname])
  }
  else
  {
    data2[,colname] <- ifelse(is.na(data2[,colname]),
                             median(data2[,colname],na.rm=T),
                             data2[,colname])
  }
}
}

```

#Dividir datos 80% para el entrenamiento y 20% para pruebas

```

set.seed(123)
trainingsamples<- data$X2urvived %>%

      createDataPartition(p=0.8, list = FALSE)

traindata <- data[trainingsamples,]
testdata <- data[-trainingsamples,]

#Experimentacion con la variable dependiente si sobrevive tomando las variables
independientes clase del ticket y sexo

model <- glm(X2urvived~Pclass + Sex,data = traindata, family = binomial)
summary(model)

##
## Call:
## glm(formula = X2urvived ~ Pclass + Sex, family = binomial, data =
traindata)
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept) -0.45045    0.21961  -2.051   0.0403 *
## Pclass      -0.64477    0.09171  -7.030 2.06e-12 ***
## Sex          1.82955    0.15818  11.566 < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##      Null deviance: 1206.37  on 1047  degrees of freedom
## Residual deviance:  998.55  on 1045  degrees of freedom
## AIC: 1004.6
##
## Number of Fisher Scoring iterations: 4

predictionValue <- model %>% predict(testdata,type = "response")
predictionValue <- ifelse(predictionValue>=0.5,1,0)

predictionValue <- as.factor(predictionValue)
testdata$X2urvived <- as.factor(testdata$X2urvived)

example <- confusionMatrix(data=predictionValue,
reference=testdata$X2urvived, mode="everything")
example

## Confusion Matrix and Statistics
##
##              Reference
## Prediction    0    1
##              0 176  33
##              1  18  34

```



```
##
##          Accuracy : 0.8046
##          95% CI : (0.7512, 0.8509)
##    No Information Rate : 0.7433
##    P-Value [Acc > NIR] : 0.01232
##
##          Kappa : 0.4475
##
##  McNemar's Test P-Value : 0.04995
##
##          Sensitivity : 0.9072
##          Specificity : 0.5075
##    Pos Pred Value : 0.8421
##    Neg Pred Value : 0.6538
##          Precision : 0.8421
##          Recall : 0.9072
##          F1 : 0.8734
##          Prevalence : 0.7433
##    Detection Rate : 0.6743
##    Detection Prevalence : 0.8008
##    Balanced Accuracy : 0.7073
##
##    'Positive' Class : 0
##
```

#Experimento 2 tomando como variables independientes Embarked

```
model <- glm(X2urvived~Embarked,data = traindata, family = binomial)
summary(model)

##
## Call:
## glm(formula = X2urvived ~ Embarked, family = binomial, data =
traindata)
##
## Coefficients:
##             Estimate Std. Error z value Pr(>|z|)
## (Intercept) -0.62968    0.13789  -4.567 4.96e-06 ***
## Embarked    -0.27897    0.08333  -3.348 0.000815 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##    Null deviance: 1203.7  on 1046  degrees of freedom
## Residual deviance: 1192.7  on 1045  degrees of freedom
## (1 observation deleted due to missingness)
## AIC: 1196.7
##
## Number of Fisher Scoring iterations: 4
```

```

predictionValue <- model %>% predict(testdata,type = "response")
predictionValue <- ifelse(predictionValue>=0.5,1,0)

predictionValue <- as.factor(predictionValue)
testdata$X2urvived <- as.factor(testdata$X2urvived)

example <- confusionMatrix(data=predictionValue,
reference=testdata$X2urvived, mode="everything")

## Warning in confusionMatrix.default(data = predictionValue, reference =
## testdata$X2urvived, : Levels are not in the same order for reference
and data.
## Refactoring data to match.

example

## Confusion Matrix and Statistics
##
##           Reference
## Prediction    0    1
##           0 194   66
##           1    0    0
##
##               Accuracy : 0.7462
##               95% CI : (0.6887, 0.7979)
##       No Information Rate : 0.7462
##       P-Value [Acc > NIR] : 0.533
##
##               Kappa : 0
##
##  Mcnemar's Test P-Value : 1.235e-15
##
##               Sensitivity : 1.0000
##               Specificity : 0.0000
##       Pos Pred Value : 0.7462
##       Neg Pred Value :      NaN
##               Precision : 0.7462
##               Recall : 1.0000
##               F1 : 0.8546
##       Prevalence : 0.7462
##       Detection Rate : 0.7462
##       Detection Prevalence : 1.0000
##       Balanced Accuracy : 0.5000
##
##       'Positive' Class : 0
##

```

#Experimento 3 tomando como variables independientes pclass, sex, parch

```

model <- glm(X2urvived~Pclass + Sex+ Parch,data = traindata, family =
binomial)

summary(model)

##
## Call:
## glm(formula = X2urvived ~ Pclass + Sex + Parch, family = binomial,
## data = traindata)
##
## Coefficients:
## Estimate Std. Error z value Pr(>|z|)
## (Intercept) -0.44809 0.21996 -2.037 0.0416 *
## Pclass -0.64372 0.09185 -7.009 2.41e-12 ***
## Sex 1.83749 0.16237 11.317 < 2e-16 ***
## Parch -0.01883 0.08655 -0.218 0.8278
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
## Null deviance: 1206.4 on 1047 degrees of freedom
## Residual deviance: 998.5 on 1044 degrees of freedom
## AIC: 1006.5
##
## Number of Fisher Scoring iterations: 4

predictionValue <- model %>% predict(testdata,type = "response")
predictionValue <- ifelse(predictionValue>=0.5,1,0)

predictionValue <- as.factor(predictionValue)
testdata$X2urvived <- as.factor(testdata$X2urvived)

example <- confusionMatrix(data=predictionValue,
reference=testdata$X2urvived, mode="everything")
example

## Confusion Matrix and Statistics
##
## Reference
## Prediction 0 1
## 0 176 33
## 1 18 34
##
## Accuracy : 0.8046
## 95% CI : (0.7512, 0.8509)
## No Information Rate : 0.7433
## P-Value [Acc > NIR] : 0.01232
##
## Kappa : 0.4475
##

```

```
## McNemar's Test P-Value : 0.04995
##
##          Sensitivity : 0.9072
##          Specificity : 0.5075
##          Pos Pred Value : 0.8421
##          Neg Pred Value : 0.6538
##          Precision : 0.8421
##          Recall : 0.9072
##          F1 : 0.8734
##          Prevalence : 0.7433
##          Detection Rate : 0.6743
##          Detection Prevalence : 0.8008
##          Balanced Accuracy : 0.7073
##
##          'Positive' Class : 0
##
```