

Homework 3

PSTAT 131/231

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Classification	1
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Classification

For this assignment, we will be working with part of a Kaggle data set that was the subject of a machine learning competition and is often used for practicing ML models. The goal is classification; specifically, to predict which passengers would survive the Titanic shipwreck.

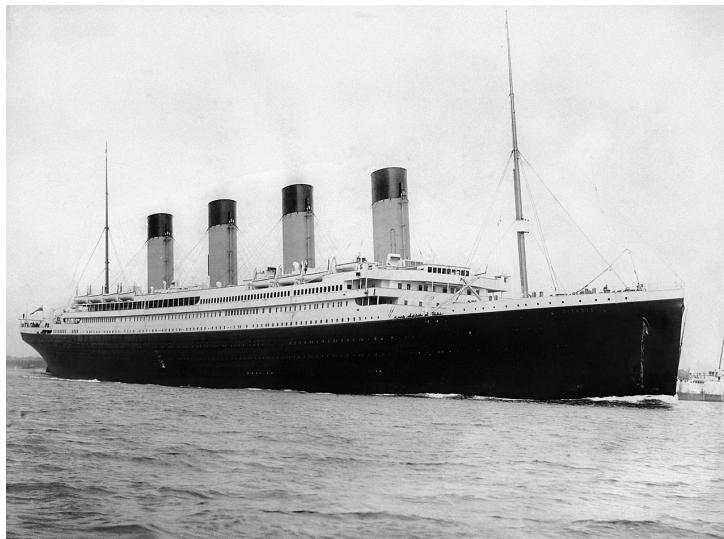


Figure 1: Fig. 1: RMS Titanic departing Southampton on April 10, 1912.

Load the data from `data/titanic.csv` into *R* and familiarize yourself with the variables it contains using the codebook (`data/titanic_codebook.txt`).

Notice that `survived` and `pclass` should be changed to factors. When changing `survived` to a factor, you may want to reorder the factor so that “*Yes*” is the first level.

Make sure you load the `tidyverse` and `tidymodels`!

```
titanic_data <- read.csv(file = "titanic.csv")
titanic_data$survived = as.factor(titanic_data$survived)
titanic_data$pclass = as.factor(titanic_data$pclass)
titanic_data
```

```

##      passenger_id survived pclass
## 1              1       No     3
## 2              2      Yes     1
## 3              3      Yes     3
## 4              4      Yes     1
## 5              5       No     3
## 6              6       No     3
## 7              7       No     1
## 8              8       No     3
## 9              9      Yes     3
## 10             10     Yes     2
## 11             11     Yes     3
## 12             12     Yes     1
## 13             13       No     3
## 14             14       No     3
## 15             15       No     3
## 16             16     Yes     2
## 17             17       No     3
## 18             18     Yes     2
## 19             19       No     3
## 20             20     Yes     3
## 21             21       No     2
## 22             22     Yes     2
## 23             23     Yes     3
## 24             24     Yes     1
## 25             25       No     3
## 26             26     Yes     3
## 27             27       No     3
## 28             28       No     1
## 29             29     Yes     3
## 30             30       No     3
## 31             31       No     1
## 32             32     Yes     1
## 33             33     Yes     3
## 34             34       No     2
## 35             35       No     1
## 36             36       No     1
## 37             37     Yes     3
## 38             38       No     3
## 39             39       No     3
## 40             40     Yes     3
## 41             41       No     3
## 42             42       No     2
## 43             43       No     3
## 44             44     Yes     2
## 45             45     Yes     3
## 46             46       No     3
## 47             47       No     3
## 48             48     Yes     3
## 49             49       No     3
## 50             50       No     3
## 51             51       No     3
## 52             52       No     3
## 53             53     Yes     1

```

## 54	54	Yes	2
## 55	55	No	1
## 56	56	Yes	1
## 57	57	Yes	2
## 58	58	No	3
## 59	59	Yes	2
## 60	60	No	3
## 61	61	No	3
## 62	62	Yes	1
## 63	63	No	1
## 64	64	No	3
## 65	65	No	1
## 66	66	Yes	3
## 67	67	Yes	2
## 68	68	No	3
## 69	69	Yes	3
## 70	70	No	3
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## 72	72	No	3
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## 94	94	No	3
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## 96	96	No	3
## 97	97	No	1
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## 122	122	No	3
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## 727	727	Yes	2
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## 730	730	No	3
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## 752	752	Yes	3
## 753	753	No	3
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## 757	757	No	3
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## 760	760	Yes	1
## 761	761	No	3
## 762	762	No	3
## 763	763	Yes	3
## 764	764	Yes	1
## 765	765	No	3
## 766	766	Yes	1
## 767	767	No	1
## 768	768	No	3
## 769	769	No	3
## 770	770	No	3
## 771	771	No	3
## 772	772	No	3
## 773	773	No	2
## 774	774	No	3
## 775	775	Yes	2
## 776	776	No	3
## 777	777	No	3
## 778	778	Yes	3
## 779	779	No	3
## 780	780	Yes	1
## 781	781	Yes	3
## 782	782	Yes	1
## 783	783	No	1
## 784	784	No	3
## 785	785	No	3
## 786	786	No	3
## 787	787	Yes	3
## 788	788	No	3
## 789	789	Yes	3
## 790	790	No	1
## 791	791	No	3
## 792	792	No	2
## 793	793	No	3
## 794	794	No	1
## 795	795	No	3
## 796	796	No	2
## 797	797	Yes	1
## 798	798	Yes	3
## 799	799	No	3
## 800	800	No	3
## 801	801	No	2
## 802	802	Yes	2
## 803	803	Yes	1
## 804	804	Yes	3
## 805	805	Yes	3
## 806	806	No	3
## 807	807	No	1
## 808	808	No	3
## 809	809	No	2

## 810	810	Yes	1
## 811	811	No	3
## 812	812	No	3
## 813	813	No	2
## 814	814	No	3
## 815	815	No	3
## 816	816	No	1
## 817	817	No	3
## 818	818	No	2
## 819	819	No	3
## 820	820	No	3
## 821	821	Yes	1
## 822	822	Yes	3
## 823	823	No	1
## 824	824	Yes	3
## 825	825	No	3
## 826	826	No	3
## 827	827	No	3
## 828	828	Yes	2
## 829	829	Yes	3
## 830	830	Yes	1
## 831	831	Yes	3
## 832	832	Yes	2
## 833	833	No	3
## 834	834	No	3
## 835	835	No	3
## 836	836	Yes	1
## 837	837	No	3
## 838	838	No	3
## 839	839	Yes	3
## 840	840	Yes	1
## 841	841	No	3
## 842	842	No	2
## 843	843	Yes	1
## 844	844	No	3
## 845	845	No	3
## 846	846	No	3
## 847	847	No	3
## 848	848	No	3
## 849	849	No	2
## 850	850	Yes	1
## 851	851	No	3
## 852	852	No	3
## 853	853	No	3
## 854	854	Yes	1
## 855	855	No	2
## 856	856	Yes	3
## 857	857	Yes	1
## 858	858	Yes	1
## 859	859	Yes	3
## 860	860	No	3
## 861	861	No	3
## 862	862	No	2
## 863	863	Yes	1

## 864	864	No	3
## 865	865	No	2
## 866	866	Yes	2
## 867	867	Yes	2
## 868	868	No	1
## 869	869	No	3
## 870	870	Yes	3
## 871	871	No	3
## 872	872	Yes	1
## 873	873	No	1
## 874	874	No	3
## 875	875	Yes	2
## 876	876	Yes	3
## 877	877	No	3
## 878	878	No	3
## 879	879	No	3
## 880	880	Yes	1
## 881	881	Yes	2
## 882	882	No	3
## 883	883	No	3
## 884	884	No	2
## 885	885	No	3
## 886	886	No	3
## 887	887	No	2
## 888	888	Yes	1
## 889	889	No	3
## 890	890	Yes	1
## 891	891	No	3
##			name
## 1			Braund, Mr. Owen Harris
## 2			Cumings, Mrs. John Bradley (Florence Briggs Thayer)
## 3			Heikkinen, Miss. Laina
## 4			Futrelle, Mrs. Jacques Heath (Lily May Peel)
## 5			Allen, Mr. William Henry
## 6			Moran, Mr. James
## 7			McCarthy, Mr. Timothy J
## 8			Palsson, Master. Gosta Leonard
## 9			Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)
## 10			Nasser, Mrs. Nicholas (Adele Achem)
## 11			Sandstrom, Miss. Marguerite Rut
## 12			Bonnell, Miss. Elizabeth
## 13			Saundercock, Mr. William Henry
## 14			Andersson, Mr. Anders Johan
## 15			Vestrom, Miss. Hulda Amanda Adolfina
## 16			Hewlett, Mrs. (Mary D Kingcome)
## 17			Rice, Master. Eugene
## 18			Williams, Mr. Charles Eugene
## 19			Vander Planke, Mrs. Julius (Emelia Maria Vandemoortele)
## 20			Masselmani, Mrs. Fatima
## 21			Fynney, Mr. Joseph J
## 22			Beesley, Mr. Lawrence
## 23			McGowan, Miss. Anna "Annie"
## 24			Sloper, Mr. William Thompson
## 25			Palsson, Miss. Torborg Danira

26 Asplund, Mrs. Carl Oscar (Selma Augusta Emilia Johansson)
27 Emir, Mr. Farred Chehab
28 Fortune, Mr. Charles Alexander
29 O'Dwyer, Miss. Ellen "Nellie"
30 Todoroff, Mr. Lilio
31 Uruchurtu, Don. Manuel E
32 Spencer, Mrs. William Augustus (Marie Eugenie)
33 Glynn, Miss. Mary Agatha
34 Wheadon, Mr. Edward H
35 Meyer, Mr. Edgar Joseph
36 Holverson, Mr. Alexander Oskar
37 Mamee, Mr. Hanna
38 Cann, Mr. Ernest Charles
39 Vander Planke, Miss. Augusta Maria
40 Nicola-Yarred, Miss. Jamila
41 Ahlin, Mrs. Johan (Johanna Persdotter Larsson)
42 Turpin, Mrs. William John Robert (Dorothy Ann Wonnacott)
43 Kraeff, Mr. Theodor
44 Laroche, Miss. Simonne Marie Anne Andree
45 Devaney, Miss. Margaret Delia
46 Rogers, Mr. William John
47 Lennon, Mr. Denis
48 O'Driscoll, Miss. Bridget
49 Samaan, Mr. Youssef
50 Arnold-Franchi, Mrs. Josef (Josefine Franchi)
51 Panula, Master. Juha Niilo
52 Nosworthy, Mr. Richard Cater
53 Harper, Mrs. Henry Sleeper (Myna Haxtun)
54 Faunthorpe, Mrs. Lizzie (Elizabeth Anne Wilkinson)
55 Ostby, Mr. Engelhart Cornelius
56 Woolner, Mr. Hugh
57 Rugg, Miss. Emily
58 Novel, Mr. Mansouer
59 West, Miss. Constance Mirium
60 Goodwin, Master. William Frederick
61 Sirayanian, Mr. Orsen
62 Icard, Miss. Amelie
63 Harris, Mr. Henry Birkhardt
64 Skoog, Master. Harald
65 Stewart, Mr. Albert A
66 Moubarek, Master. Gerios
67 Nye, Mrs. (Elizabeth Ramell)
68 Crease, Mr. Ernest James
69 Andersson, Miss. Erna Alexandra
70 Kink, Mr. Vincenz
71 Jenkin, Mr. Stephen Curnow
72 Goodwin, Miss. Lillian Amy
73 Hood, Mr. Ambrose Jr
74 Chronopoulos, Mr. Apostolos
75 Bing, Mr. Lee
76 Moen, Mr. Sigurd Hansen
77 Staneff, Mr. Ivan
78 Moutal, Mr. Rahamin Haim
79 Caldwell, Master. Alden Gates

80 Dowdell, Miss. Elizabeth
81 Waelens, Mr. Achille
82 Sheerlinck, Mr. Jan Baptist
83 McDermott, Miss. Brigdet Delia
84 Carrau, Mr. Francisco M
85 Ilett, Miss. Bertha
86 Backstrom, Mrs. Karl Alfred (Maria Mathilda Gustafsson)
87 Ford, Mr. William Neal
88 Slocovski, Mr. Selman Francis
89 Fortune, Miss. Mabel Helen
90 Celotti, Mr. Francesco
91 Christmann, Mr. Emil
92 Andreasson, Mr. Paul Edvin
93 Chaffee, Mr. Herbert Fuller
94 Dean, Mr. Bertram Frank
95 Coxon, Mr. Daniel
96 Shorney, Mr. Charles Joseph
97 Goldschmidt, Mr. George B
98 Greenfield, Mr. William Bertram
99 Doling, Mrs. John T (Ada Julia Bone)
100 Kantor, Mr. Sinai
101 Petranec, Miss. Matilda
102 Petroff, Mr. Pastcho ("Pentcho")
103 White, Mr. Richard Frasar
104 Johansson, Mr. Gustaf Joel
105 Gustafsson, Mr. Anders Vilhelm
106 Mionoff, Mr. Stoytcho
107 Salkjelsvik, Miss. Anna Kristine
108 Moss, Mr. Albert Johan
109 Rekic, Mr. Tido
110 Moran, Miss. Bertha
111 Porter, Mr. Walter Chamberlain
112 Zabour, Miss. Hileni
113 Barton, Mr. David John
114 Jussila, Miss. Katriina
115 Attalah, Miss. Malake
116 Pekoniemi, Mr. Edvard
117 Connors, Mr. Patrick
118 Turpin, Mr. William John Robert
119 Baxter, Mr. Quigg Edmond
120 Andersson, Miss. Ellis Anna Maria
121 Hickman, Mr. Stanley George
122 Moore, Mr. Leonard Charles
123 Nasser, Mr. Nicholas
124 Webber, Miss. Susan
125 White, Mr. Percival Wayland
126 Nicola-Yarred, Master. Elias
127 McMahon, Mr. Martin
128 Madsen, Mr. Fridtjof Arne
129 Peter, Miss. Anna
130 Ekstrom, Mr. Johan
131 Drazenoic, Mr. Jozef
132 Coelho, Mr. Domingos Fernandeo
133 Robins, Mrs. Alexander A (Grace Charity Laury)

134 Weisz, Mrs. Leopold (Mathilde Francoise Pede)
135 Sobey, Mr. Samuel James Hayden
136 Richard, Mr. Emile
137 Newsom, Miss. Helen Monypeny
138 Futrelle, Mr. Jacques Heath
139 Osen, Mr. Olaf Elon
140 Giglio, Mr. Victor
141 Boulos, Mrs. Joseph (Sultana)
142 Nysten, Miss. Anna Sofia
143 Hakkarainen, Mrs. Pekka Pietari (Elin Matilda Dolck)
144 Burke, Mr. Jeremiah
145 Andrew, Mr. Edgardo Samuel
146 Nicholls, Mr. Joseph Charles
147 Andersson, Mr. August Edvard ("Wennerstrom")
148 Ford, Miss. Robina Maggie "Ruby"
149 Navratil, Mr. Michel ("Louis M Hoffman")
150 Byles, Rev. Thomas Roussel Davids
151 Bateman, Rev. Robert James
152 Pears, Mrs. Thomas (Edith Wearne)
153 Meo, Mr. Alfonzo
154 van Billiard, Mr. Austin Blyler
155 Olsen, Mr. Ole Martin
156 Williams, Mr. Charles Duane
157 Gilnagh, Miss. Katherine "Katie"
158 Corn, Mr. Harry
159 Smiljanic, Mr. Mile
160 Sage, Master. Thomas Henry
161 Cribb, Mr. John Hatfield
162 Watt, Mrs. James (Elizabeth "Bessie" Inglis Milne)
163 Bengtsson, Mr. John Viktor
164 Calic, Mr. Jovo
165 Panula, Master. Eino Viljami
166 Goldsmith, Master. Frank John William "Frankie"
167 Chibnall, Mrs. (Edith Martha Bowerman)
168 Skoog, Mrs. William (Anna Bernhardina Karlsson)
169 Baumann, Mr. John D
170 Ling, Mr. Lee
171 Van der hoef, Mr. Wyckoff
172 Rice, Master. Arthur
173 Johnson, Miss. Eleanor Ileen
174 Sivola, Mr. Antti Wilhelm
175 Smith, Mr. James Clinch
176 Klasen, Mr. Klas Albin
177 Lefebre, Master. Henry Forbes
178 Isham, Miss. Ann Elizabeth
179 Hale, Mr. Reginald
180 Leonard, Mr. Lionel
181 Sage, Miss. Constance Gladys
182 Pernot, Mr. Rene
183 Asplund, Master. Clarence Gustaf Hugo
184 Becker, Master. Richard F
185 Kink-Heilmann, Miss. Luise Gretchen
186 Rood, Mr. Hugh Roscoe
187 O'Brien, Mrs. Thomas (Johanna "Hannah" Godfrey)

188 Romaine, Mr. Charles Hallace ("Mr C Rolmane")
189 Bourke, Mr. John
190 Turcin, Mr. Stjepan
191 Pinsky, Mrs. (Rosa)
192 Carbines, Mr. William
193 Andersen-Jensen, Miss. Carla Christine Nielsine
194 Navratil, Master. Michel M
195 Brown, Mrs. James Joseph (Margaret Tobin)
196 Lurette, Miss. Elise
197 Mernagh, Mr. Robert
198 Olsen, Mr. Karl Siegwart Andreas
199 Madigan, Miss. Margaret "Maggie"
200 Yrois, Miss. Henriette ("Mrs Harbeck")
201 Vande Walle, Mr. Nestor Cyriel
202 Sage, Mr. Frederick
203 Johanson, Mr. Jakob Alfred
204 Youseff, Mr. Gerious
205 Cohen, Mr. Gurshon "Gus"
206 Strom, Miss. Telma Matilda
207 Backstrom, Mr. Karl Alfred
208 Albimona, Mr. Nassef Cassem
209 Carr, Miss. Helen "Ellen"
210 Blank, Mr. Henry
211 Ali, Mr. Ahmed
212 Cameron, Miss. Clear Annie
213 Perkin, Mr. John Henry
214 Givard, Mr. Hans Kristensen
215 Kiernan, Mr. Philip
216 Newell, Miss. Madeleine
217 Honkanen, Miss. Eliina
218 Jacobsohn, Mr. Sidney Samuel
219 Bazzani, Miss. Albina
220 Harris, Mr. Walter
221 Sunderland, Mr. Victor Francis
222 Bracken, Mr. James H
223 Green, Mr. George Henry
224 Nenkoff, Mr. Christo
225 Hoyt, Mr. Frederick Maxfield
226 Berglund, Mr. Karl Ivar Sven
227 Mellors, Mr. William John
228 Lovell, Mr. John Hall ("Henry")
229 Fahlstrom, Mr. Arne Jonas
230 Lefebre, Miss. Mathilde
231 Harris, Mrs. Henry Birkhardt (Irene Wallach)
232 Larsson, Mr. Bengt Edvin
233 Sjostedt, Mr. Ernst Adolf
234 Asplund, Miss. Lillian Gertrud
235 Leyson, Mr. Robert William Norman
236 Harknett, Miss. Alice Phoebe
237 Hold, Mr. Stephen
238 Collyer, Miss. Marjorie "Lottie"
239 Pengelly, Mr. Frederick William
240 Hunt, Mr. George Henry
241 Zabour, Miss. Thamine

242 Murphy, Miss. Katherine "Kate"
243 Coleridge, Mr. Reginald Charles
244 Maenpaa, Mr. Matti Alexander
245 Attalah, Mr. Sleiman
246 Minahan, Dr. William Edward
247 Lindahl, Miss. Agda Thorilda Viktoria
248 Hamalainen, Mrs. William (Anna)
249 Beckwith, Mr. Richard Leonard
250 Carter, Rev. Ernest Courtenay
251 Reed, Mr. James George
252 Strom, Mrs. Wilhelm (Elna Matilda Persson)
253 Stead, Mr. William Thomas
254 Lobb, Mr. William Arthur
255 Rosblom, Mrs. Viktor (Helena Wilhelmina)
256 Touma, Mrs. Darwis (Hanne Youssef Razi)
257 Thorne, Mrs. Gertrude Maybelle
258 Cherry, Miss. Gladys
259 Ward, Miss. Anna
260 Parrish, Mrs. (Lutie Davis)
261 Smith, Mr. Thomas
262 Asplund, Master. Edvin Rojj Felix
263 Taussig, Mr. Emil
264 Harrison, Mr. William
265 Henry, Miss. Delia
266 Reeves, Mr. David
267 Panula, Mr. Ernesti Arvid
268 Persson, Mr. Ernst Ulrik
269 Graham, Mrs. William Thompson (Edith Junkins)
270 Bissette, Miss. Amelia
271 Cairns, Mr. Alexander
272 Tornquist, Mr. William Henry
273 Mellinger, Mrs. (Elizabeth Anne Maidment)
274 Natsch, Mr. Charles H
275 Healy, Miss. Hanora "Nora"
276 Andrews, Miss. Kornelia Theodosia
277 Lindblom, Miss. Augusta Charlotta
278 Parkes, Mr. Francis "Frank"
279 Rice, Master. Eric
280 Abbott, Mrs. Stanton (Rosa Hunt)
281 Duane, Mr. Frank
282 Olsson, Mr. Nils Johan Goransson
283 de Pelsmaeker, Mr. Alfons
284 Dorking, Mr. Edward Arthur
285 Smith, Mr. Richard William
286 Stankovic, Mr. Ivan
287 de Mulder, Mr. Theodore
288 Naidenoff, Mr. Penko
289 Hosono, Mr. Masabumi
290 Connolly, Miss. Kate
291 Barber, Miss. Ellen "Nellie"
292 Bishop, Mrs. Dickinson H (Helen Walton)
293 Levy, Mr. Rene Jacques
294 Haas, Miss. Aloisia
295 Mineff, Mr. Ivan

296 Lewy, Mr. Ervin G
297 Hanna, Mr. Mansour
298 Allison, Miss. Helen Loraine
299 Saalfeld, Mr. Adolphe
300 Baxter, Mrs. James (Helene DeLaudeniere Chaput)
301 Kelly, Miss. Anna Katherine "Annie Kate"
302 McCoy, Mr. Bernard
303 Johnson, Mr. William Cahone Jr
304 Keane, Miss. Nora A
305 Williams, Mr. Howard Hugh "Harry"
306 Allison, Master. Hudson Trevor
307 Fleming, Miss. Margaret
308 Penasco y Castellana, Mrs. Victor de Satode (Maria Josefa Perez de Soto y Vallejo)
309 Abelson, Mr. Samuel
310 Francatelli, Miss. Laura Mabel
311 Hays, Miss. Margaret Bechstein
312 Ryerson, Miss. Emily Borie
313 Lahtinen, Mrs. William (Anna Sylfven)
314 Hendekovic, Mr. Ignjac
315 Hart, Mr. Benjamin
316 Nilsson, Miss. Helmina Josefina
317 Kantor, Mrs. Sinai (Miriam Sternin)
318 Moraweck, Dr. Ernest
319 Wick, Miss. Mary Natalie
320 Spedden, Mrs. Frederic Oakley (Margaretta Corning Stone)
321 Dennis, Mr. Samuel
322 Danoff, Mr. Yoto
323 Slayter, Miss. Hilda Mary
324 Caldwell, Mrs. Albert Francis (Sylvia Mae Harbaugh)
325 Sage, Mr. George John Jr
326 Young, Miss. Marie Grice
327 Nysveen, Mr. Johan Hansen
328 Ball, Mrs. (Ada E Hall)
329 Goldsmith, Mrs. Frank John (Emily Alice Brown)
330 Hippach, Miss. Jean Gertrude
331 McCoy, Miss. Agnes
332 Partner, Mr. Austen
333 Graham, Mr. George Edward
334 Vander Planke, Mr. Leo Edmondus
335 Frauenthal, Mrs. Henry William (Clara Heinsheimer)
336 Denkoff, Mr. Mitto
337 Pears, Mr. Thomas Clinton
338 Burns, Miss. Elizabeth Margaret
339 Dahl, Mr. Karl Edward
340 Blackwell, Mr. Stephen Weart
341 Navratil, Master. Edmond Roger
342 Fortune, Miss. Alice Elizabeth
343 Collander, Mr. Erik Gustaf
344 Sedgwick, Mr. Charles Frederick Waddington
345 Fox, Mr. Stanley Hubert
346 Brown, Miss. Amelia "Mildred"
347 Smith, Miss. Marion Elsie
348 Davison, Mrs. Thomas Henry (Mary E Finck)
349 Coutts, Master. William Loch "William"

350 Dimic, Mr. Jovan
351 Odahl, Mr. Nils Martin
352 Williams-Lambert, Mr. Fletcher Fellows
353 Elias, Mr. Tannous
354 Arnold-Franchi, Mr. Josef
355 Yousif, Mr. Wazli
356 Vanden Steen, Mr. Leo Peter
357 Bowerman, Miss. Elsie Edith
358 Funk, Miss. Annie Clemmer
359 McGovern, Miss. Mary
360 Mockler, Miss. Helen Mary "Ellie"
361 Skoog, Mr. Wilhelm
362 del Carlo, Mr. Sebastiano
363 Barbara, Mrs. (Catherine David)
364 Asim, Mr. Adola
365 O'Brien, Mr. Thomas
366 Adahl, Mr. Mauritz Nils Martin
367 Warren, Mrs. Frank Manley (Anna Sophia Atkinson)
368 Moussa, Mrs. (Mantoura Boulos)
369 Jermyn, Miss. Annie
370 Aubart, Mme. Leontine Pauline
371 Harder, Mr. George Achilles
372 Wiklund, Mr. Jakob Alfred
373 Beavan, Mr. William Thomas
374 Ringhini, Mr. Sante
375 Palsson, Miss. Stina Viola
376 Meyer, Mrs. Edgar Joseph (Leila Saks)
377 Landergren, Miss. Aurora Adelia
378 Widener, Mr. Harry Elkins
379 Betros, Mr. Tannous
380 Gustafsson, Mr. Karl Gideon
381 Bidois, Miss. Rosalie
382 Nakid, Miss. Maria ("Mary")
383 Tikkanen, Mr. Juho
384 Holverson, Mrs. Alexander Oskar (Mary Aline Towner)
385 Plotcharsky, Mr. Vasil
386 Davies, Mr. Charles Henry
387 Goodwin, Master. Sidney Leonard
388 Buss, Miss. Kate
389 Sadlier, Mr. Matthew
390 Lehmann, Miss. Bertha
391 Carter, Mr. William Ernest
392 Jansson, Mr. Carl Olof
393 Gustafsson, Mr. Johan Birger
394 Newell, Miss. Marjorie
395 Sandstrom, Mrs. Hjalmar (Agnes Charlotta Bengtsson)
396 Johansson, Mr. Erik
397 Olsson, Miss. Elina
398 McKane, Mr. Peter David
399 Pain, Dr. Alfred
400 Trout, Mrs. William H (Jessie L)
401 Niskanen, Mr. Juha
402 Adams, Mr. John
403 Jussila, Miss. Mari Aina

404 Hakkarainen, Mr. Pekka Pietari
405 Oreskovic, Miss. Marija
406 Gale, Mr. Shadrach
407 Widegren, Mr. Carl/Charles Peter
408 Richards, Master. William Rowe
409 Birkeland, Mr. Hans Martin Monsen
410 Lefebre, Miss. Ida
411 Sdycoff, Mr. Todor
412 Hart, Mr. Henry
413 Minahan, Miss. Daisy E
414 Cunningham, Mr. Alfred Fleming
415 Sundman, Mr. Johan Julian
416 Meek, Mrs. Thomas (Annie Louise Rowley)
417 Drew, Mrs. James Vivian (Lulu Thorne Christian)
418 Silven, Miss. Lyyli Karoliina
419 Matthews, Mr. William John
420 Van Impe, Miss. Catharina
421 Gheorgheff, Mr. Stanio
422 Charters, Mr. David
423 Zimmerman, Mr. Leo
424 Danbom, Mrs. Ernst Gilbert (Anna Sigrid Maria Brogren)
425 Rosblom, Mr. Viktor Richard
426 Wiseman, Mr. Phillippe
427 Clarke, Mrs. Charles V (Ada Maria Winfield)
428 Phillips, Miss. Kate Florence ("Mrs Kate Louise Phillips Marshall")
429 Flynn, Mr. James
430 Pickard, Mr. Berk (Berk Trembisky)
431 Bjornstrom-Steffansson, Mr. Mauritz Hakan
432 Thorneycroft, Mrs. Percival (Florence Kate White)
433 Louch, Mrs. Charles Alexander (Alice Adelaide Slow)
434 Kallio, Mr. Nikolai Erland
435 Silvey, Mr. William Baird
436 Carter, Miss. Lucile Polk
437 Ford, Miss. Doolina Margaret "Daisy"
438 Richards, Mrs. Sidney (Emily Hocking)
439 Fortune, Mr. Mark
440 Kvillner, Mr. Johan Henrik Johannesson
441 Hart, Mrs. Benjamin (Esther Ada Bloomfield)
442 Hampe, Mr. Leon
443 Petterson, Mr. Johan Emil
444 Reynaldo, Ms. Encarnacion
445 Johannesen-Bratthammer, Mr. Bernt
446 Dodge, Master. Washington
447 Mellinger, Miss. Madeleine Violet
448 Seward, Mr. Frederic Kimber
449 Baclini, Miss. Marie Catherine
450 Peuchen, Major. Arthur Godfrey
451 West, Mr. Edwy Arthur
452 Hagland, Mr. Ingvald Olai Olsen
453 Foreman, Mr. Benjamin Laventall
454 Goldenberg, Mr. Samuel L
455 Peduzzi, Mr. Joseph
456 Jalsevac, Mr. Ivan
457 Millet, Mr. Francis Davis

458 Kenyon, Mrs. Frederick R (Marion)
459 Toomey, Miss. Ellen
460 O'Connor, Mr. Maurice
461 Anderson, Mr. Harry
462 Morley, Mr. William
463 Gee, Mr. Arthur H
464 Milling, Mr. Jacob Christian
465 Maisner, Mr. Simon
466 Goncalves, Mr. Manuel Estanslas
467 Campbell, Mr. William
468 Smart, Mr. John Montgomery
469 Scanlan, Mr. James
470 Baclini, Miss. Helene Barbara
471 Keefe, Mr. Arthur
472 Cacic, Mr. Luka
473 West, Mrs. Edwy Arthur (Ada Mary Worth)
474 Jerwan, Mrs. Amin S (Marie Marthe Thuillard)
475 Strandberg, Miss. Ida Sofia
476 Clifford, Mr. George Quincy
477 Renouf, Mr. Peter Henry
478 Braund, Mr. Lewis Richard
479 Karlsson, Mr. Nils August
480 Hirvonen, Miss. Hildur E
481 Goodwin, Master. Harold Victor
482 Frost, Mr. Anthony Wood "Archie"
483 Rouse, Mr. Richard Henry
484 Turkula, Mrs. (Hedwig)
485 Bishop, Mr. Dickinson H
486 Lefebre, Miss. Jeannie
487 Hoyt, Mrs. Frederick Maxfield (Jane Anne Forby)
488 Kent, Mr. Edward Austin
489 Somerton, Mr. Francis William
490 Coutts, Master. Eden Leslie "Neville"
491 Hagland, Mr. Konrad Mathias Reiersen
492 Windelov, Mr. Einar
493 Molson, Mr. Harry Markland
494 Artagaveytia, Mr. Ramon
495 Stanley, Mr. Edward Roland
496 Yousseff, Mr. Gerious
497 Eustis, Miss. Elizabeth Mussey
498 Shellard, Mr. Frederick William
499 Allison, Mrs. Hudson J C (Bessie Waldo Daniels)
500 Svensson, Mr. Olof
501 Calic, Mr. Petar
502 Canavan, Miss. Mary
503 O'Sullivan, Miss. Bridget Mary
504 Laitinen, Miss. Kristina Sofia
505 Maioni, Miss. Roberta
506 Penasco y Castellana, Mr. Victor de Satode
507 Quick, Mrs. Frederick Charles (Jane Richards)
508 Bradley, Mr. George ("George Arthur Brayton")
509 Olsen, Mr. Henry Margido
510 Lang, Mr. Fang
511 Daly, Mr. Eugene Patrick

512 Webber, Mr. James
513 McGough, Mr. James Robert
514 Rothschild, Mrs. Martin (Elizabeth L. Barrett)
515 Coleff, Mr. Satio
516 Walker, Mr. William Anderson
517 Lemore, Mrs. (Amelia Milley)
518 Ryan, Mr. Patrick
519 Angle, Mrs. William A (Florence "Mary" Agnes Hughes)
520 Pavlovic, Mr. Stefo
521 Perreault, Miss. Anne
522 Vovk, Mr. Janko
523 Lahoud, Mr. Sarkis
524 Hippach, Mrs. Louis Albert (Ida Sophia Fischer)
525 Kassem, Mr. Fared
526 Farrell, Mr. James
527 Ridsdale, Miss. Lucy
528 Farthing, Mr. John
529 Salonen, Mr. Johan Werner
530 Hocking, Mr. Richard George
531 Quick, Miss. Phyllis May
532 Toufik, Mr. Nakli
533 Elias, Mr. Joseph Jr
534 Peter, Mrs. Catherine (Catherine Rizk)
535 Cacic, Miss. Marija
536 Hart, Miss. Eva Miriam
537 Butt, Major. Archibald Willingham
538 LeRoy, Miss. Bertha
539 Risien, Mr. Samuel Beard
540 Frolicher, Miss. Hedwig Margaritha
541 Crosby, Miss. Harriet R
542 Andersson, Miss. Ingeborg Constantzia
543 Andersson, Miss. Sigrid Elisabeth
544 Beane, Mr. Edward
545 Douglas, Mr. Walter Donald
546 Nicholson, Mr. Arthur Ernest
547 Beane, Mrs. Edward (Ethel Clarke)
548 Padro y Manent, Mr. Julian
549 Goldsmith, Mr. Frank John
550 Davies, Master. John Morgan Jr
551 Thayer, Mr. John Borland Jr
552 Sharp, Mr. Percival James R
553 O'Brien, Mr. Timothy
554 Leeni, Mr. Fahim ("Philip Zenni")
555 Ohman, Miss. Velin
556 Wright, Mr. George
557 Duff Gordon, Lady. (Lucille Christiana Sutherland) ("Mrs Morgan")
558 Robbins, Mr. Victor
559 Taussig, Mrs. Emil (Tillie Mandelbaum)
560 de Messemaeker, Mrs. Guillaume Joseph (Emma)
561 Morrow, Mr. Thomas Rowan
562 Sivic, Mr. Husein
563 Norman, Mr. Robert Douglas
564 Simmons, Mr. John
565 Meanwell, Miss. (Marion Ogden)

566 Davies, Mr. Alfred J
567 Stoytcheff, Mr. Ilia
568 Palsson, Mrs. Nils (Alma Cornelia Berglund)
569 Doharr, Mr. Tannous
570 Jonsson, Mr. Carl
571 Harris, Mr. George
572 Appleton, Mrs. Edward Dale (Charlotte Lamson)
573 Flynn, Mr. John Irwin ("Irving")
574 Kelly, Miss. Mary
575 Rush, Mr. Alfred George John
576 Patchett, Mr. George
577 Garside, Miss. Ethel
578 Silvey, Mrs. William Baird (Alice Munger)
579 Caram, Mrs. Joseph (Maria Elias)
580 Jussila, Mr. Eiriik
581 Christy, Miss. Julie Rachel
582 Thayer, Mrs. John Borland (Marian Longstreth Morris)
583 Downton, Mr. William James
584 Ross, Mr. John Hugo
585 Paulner, Mr. Uscher
586 Taussig, Miss. Ruth
587 Jarvis, Mr. John Denzil
588 Frolicher-Stehli, Mr. Maxmillian
589 Gilinski, Mr. Eliezer
590 Murdin, Mr. Joseph
591 Rintamaki, Mr. Matti
592 Stephenson, Mrs. Walter Bertram (Martha Eustis)
593 Elsbury, Mr. William James
594 Bourke, Miss. Mary
595 Chapman, Mr. John Henry
596 Van Impe, Mr. Jean Baptiste
597 Leitch, Miss. Jessie Wills
598 Johnson, Mr. Alfred
599 Boulos, Mr. Hanna
600 Duff Gordon, Sir. Cosmo Edmund ("Mr Morgan")
601 Jacobsohn, Mrs. Sidney Samuel (Amy Frances Christy)
602 Slabenoff, Mr. Petco
603 Harrington, Mr. Charles H
604 Torber, Mr. Ernst William
605 Homer, Mr. Harry ("Mr E Haven")
606 Lindell, Mr. Edvard Bengtsson
607 Karaic, Mr. Milan
608 Daniel, Mr. Robert Williams
609 Laroche, Mrs. Joseph (Juliette Marie Louise Lafargue)
610 Shutes, Miss. Elizabeth W
611 Andersson, Mrs. Anders Johan (Alfrida Konstantia Brogren)
612 Jardin, Mr. Jose Neto
613 Murphy, Miss. Margaret Jane
614 Horgan, Mr. John
615 Brocklebank, Mr. William Alfred
616 Herman, Miss. Alice
617 Danbom, Mr. Ernst Gilbert
618 Lobb, Mrs. William Arthur (Cordelia K Stanlick)
619 Becker, Miss. Marion Louise

620 Gavey, Mr. Lawrence
621 Yasbeck, Mr. Antoni
622 Kimball, Mr. Edwin Nelson Jr
623 Nakid, Mr. Sahid
624 Hansen, Mr. Henry Damsgaard
625 Bowen, Mr. David John "Dai"
626 Sutton, Mr. Frederick
627 Kirkland, Rev. Charles Leonard
628 Longley, Miss. Gretchen Fiske
629 Bostandyeff, Mr. Guentcho
630 O'Connell, Mr. Patrick D
631 Barkworth, Mr. Algernon Henry Wilson
632 Lundahl, Mr. Johan Svensson
633 Stahelin-Maeglin, Dr. Max
634 Parr, Mr. William Henry Marsh
635 Skoog, Miss. Mabel
636 Davis, Miss. Mary
637 Leinonen, Mr. Antti Gustaf
638 Collyer, Mr. Harvey
639 Panula, Mrs. Juha (Maria Emilia Ojala)
640 Thorneycroft, Mr. Percival
641 Jensen, Mr. Hans Peder
642 Sagesser, Mlle. Emma
643 Skoog, Miss. Margit Elizabeth
644 Foo, Mr. Choong
645 Baclini, Miss. Eugenie
646 Harper, Mr. Henry Sleeper
647 Cor, Mr. Liudevit
648 Simonius-Blumer, Col. Oberst Alfons
649 Willey, Mr. Edward
650 Stanley, Miss. Amy Zillah Elsie
651 Mitkoff, Mr. Mito
652 Doling, Miss. Elsie
653 Kalvik, Mr. Johannes Halvorsen
654 O'Leary, Miss. Hanora "Norah"
655 Hegarty, Miss. Hanora "Nora"
656 Hickman, Mr. Leonard Mark
657 Radeff, Mr. Alexander
658 Bourke, Mrs. John (Catherine)
659 Eitemiller, Mr. George Floyd
660 Newell, Mr. Arthur Webster
661 Frauenthal, Dr. Henry William
662 Badt, Mr. Mohamed
663 Colley, Mr. Edward Pomeroy
664 Coleff, Mr. Peju
665 Lindqvist, Mr. Eino William
666 Hickman, Mr. Lewis
667 Butler, Mr. Reginald Fenton
668 Rommetvedt, Mr. Knud Paust
669 Cook, Mr. Jacob
670 Taylor, Mrs. Elmer Zebley (Juliet Cummins Wright)
671 Brown, Mrs. Thomas William Solomon (Elizabeth Catherine Ford)
672 Davidson, Mr. Thornton
673 Mitchell, Mr. Henry Michael

## 674	Wilhelms, Mr. Charles
## 675	Watson, Mr. Ennis Hastings
## 676	Edvardsson, Mr. Gustaf Hjalmar
## 677	Sawyer, Mr. Frederick Charles
## 678	Turja, Miss. Anna Sofia
## 679	Goodwin, Mrs. Frederick (Augusta Tyler)
## 680	Cardeza, Mr. Thomas Drake Martinez
## 681	Peters, Miss. Katie
## 682	Hassab, Mr. Hammad
## 683	Olsvigen, Mr. Thor Anderson
## 684	Goodwin, Mr. Charles Edward
## 685	Brown, Mr. Thomas William Solomon
## 686	Laroche, Mr. Joseph Philippe Lemercier
## 687	Panula, Mr. Jaako Arnold
## 688	Dakic, Mr. Branko
## 689	Fischer, Mr. Eberhard Thelander
## 690	Madill, Miss. Georgette Alexandra
## 691	Dick, Mr. Albert Adrian
## 692	Karun, Miss. Manca
## 693	Lam, Mr. Ali
## 694	Saad, Mr. Khalil
## 695	Weir, Col. John
## 696	Chapman, Mr. Charles Henry
## 697	Kelly, Mr. James
## 698	Mullens, Miss. Katherine "Katie"
## 699	Thayer, Mr. John Borland
## 700	Humblen, Mr. Adolf Mathias Nicolai Olsen
## 701	Astor, Mrs. John Jacob (Madeleine Talmadge Force)
## 702	Silverthorne, Mr. Spencer Victor
## 703	Barbara, Miss. Saiide
## 704	Gallagher, Mr. Martin
## 705	Hansen, Mr. Henrik Juul
## 706	Morley, Mr. Henry Samuel ("Mr Henry Marshall")
## 707	Kelly, Mrs. Florence "Fannie"
## 708	Calderhead, Mr. Edward Pennington
## 709	Cleaver, Miss. Alice
## 710	Moubarek, Master. Halim Gonios ("William George")
## 711	Mayne, Mlle. Berthe Antonine ("Mrs de Villiers")
## 712	Klaber, Mr. Herman
## 713	Taylor, Mr. Elmer Zebley
## 714	Larsson, Mr. August Viktor
## 715	Greenberg, Mr. Samuel
## 716	Soholt, Mr. Peter Andreas Lauritz Andersen
## 717	Endres, Miss. Caroline Louise
## 718	Trott, Miss. Edwina Celia "Winnie"
## 719	McEvoy, Mr. Michael
## 720	Johnson, Mr. Malcolm Joackim
## 721	Harper, Miss. Annie Jessie "Nina"
## 722	Jensen, Mr. Svend Lauritz
## 723	Gillespie, Mr. William Henry
## 724	Hodges, Mr. Henry Price
## 725	Chambers, Mr. Norman Campbell
## 726	Oreskovic, Mr. Luka
## 727	Renouf, Mrs. Peter Henry (Lillian Jefferys)

728 Mannion, Miss. Margareth
729 Bryhl, Mr. Kurt Arnold Gottfrid
730 Ilmakangas, Miss. Pieta Sofia
731 Allen, Miss. Elisabeth Walton
732 Hassan, Mr. Houssein G N
733 Knight, Mr. Robert J
734 Berriman, Mr. William John
735 Troupiansky, Mr. Moses Aaron
736 Williams, Mr. Leslie
737 Ford, Mrs. Edward (Margaret Ann Watson)
738 Lesurer, Mr. Gustave J
739 Ivanoff, Mr. Kanio
740 Nankoff, Mr. Minko
741 Hawksford, Mr. Walter James
742 Cavendish, Mr. Tyrell William
743 Ryerson, Miss. Susan Parker "Suzette"
744 McNamee, Mr. Neal
745 Strandén, Mr. Juho
746 Crosby, Capt. Edward Gifford
747 Abbott, Mr. Rossmore Edward
748 Sinkkonen, Miss. Anna
749 Marvin, Mr. Daniel Warner
750 Connaghton, Mr. Michael
751 Wells, Miss. Joan
752 Moor, Master. Meier
753 Vande Velde, Mr. Johannes Joseph
754 Jonkoff, Mr. Lailio
755 Herman, Mrs. Samuel (Jane Laver)
756 Hamalainen, Master. Viljo
757 Carlsson, Mr. August Sigfrid
758 Bailey, Mr. Percy Andrew
759 Theobald, Mr. Thomas Leonard
760 Rothes, the Countess. of (Lucy Noel Martha Dyer-Edwards)
761 Garfirth, Mr. John
762 Nirva, Mr. Iisakki Antino Aijo
763 Barah, Mr. Hanna Assi
764 Carter, Mrs. William Ernest (Lucile Polk)
765 Eklund, Mr. Hans Linus
766 Hogeboom, Mrs. John C (Anna Andrews)
767 Brewe, Dr. Arthur Jackson
768 Mangan, Miss. Mary
769 Moran, Mr. Daniel J
770 Gronnestad, Mr. Daniel Danielsen
771 Lievens, Mr. Rene Aime
772 Jensen, Mr. Niels Peder
773 Mack, Mrs. (Mary)
774 Elias, Mr. Dibo
775 Hocking, Mrs. Elizabeth (Eliza Needs)
776 Myhrman, Mr. Pehr Fabian Oliver Malcolm
777 Tobin, Mr. Roger
778 Emanuel, Miss. Virginia Ethel
779 Kilgannon, Mr. Thomas J
780 Robert, Mrs. Edward Scott (Elisabeth Walton McMillan)
781 Ayoub, Miss. Banoura

782 Dick, Mrs. Albert Adrian (Vera Gillespie)
783 Long, Mr. Milton Clyde
784 Johnston, Mr. Andrew G
785 Ali, Mr. William
786 Harmer, Mr. Abraham (David Lishin)
787 Sjoblom, Miss. Anna Sofia
788 Rice, Master. George Hugh
789 Dean, Master. Bertram Vere
790 Guggenheim, Mr. Benjamin
791 Keane, Mr. Andrew "Andy"
792 Gaskell, Mr. Alfred
793 Sage, Miss. Stella Anna
794 Hoyt, Mr. William Fisher
795 Dantcheff, Mr. Ristiu
796 Otter, Mr. Richard
797 Leader, Dr. Alice (Farnham)
798 Osman, Mrs. Mara
799 Ibrahim Shawah, Mr. Yousseff
800 Van Impe, Mrs. Jean Baptiste (Rosalie Paula Govaert)
801 Ponesell, Mr. Martin
802 Collyer, Mrs. Harvey (Charlotte Annie Tate)
803 Carter, Master. William Thornton II
804 Thomas, Master. Assad Alexander
805 Hedman, Mr. Oskar Arvid
806 Johansson, Mr. Karl Johan
807 Andrews, Mr. Thomas Jr
808 Pettersson, Miss. Ellen Natalia
809 Meyer, Mr. August
810 Chambers, Mrs. Norman Campbell (Bertha Griggs)
811 Alexander, Mr. William
812 Lester, Mr. James
813 Slemen, Mr. Richard James
814 Andersson, Miss. Ebba Iris Alfrida
815 Tomlin, Mr. Ernest Portage
816 Fry, Mr. Richard
817 Heininen, Miss. Wendla Maria
818 Mallet, Mr. Albert
819 Holm, Mr. John Fredrik Alexander
820 Skoog, Master. Karl Thorsten
821 Hays, Mrs. Charles Melville (Clara Jennings Gregg)
822 Lulic, Mr. Nikola
823 Reuchlin, Jonkheer. John George
824 Moor, Mrs. (Beila)
825 Panula, Master. Urho Abraham
826 Flynn, Mr. John
827 Lam, Mr. Len
828 Mallet, Master. Andre
829 McCormack, Mr. Thomas Joseph
830 Stone, Mrs. George Nelson (Martha Evelyn)
831 Yasbeck, Mrs. Antoni (Selini Alexander)
832 Richards, Master. George Sibley
833 Saad, Mr. Amin
834 Augustsson, Mr. Albert
835 Allum, Mr. Owen George

836 Compton, Miss. Sara Rebecca
837 Pasic, Mr. Jakob
838 Sirota, Mr. Maurice
839 Chip, Mr. Chang
840 Marechal, Mr. Pierre
841 Alhomaki, Mr. Ilmari Rudolf
842 Mudd, Mr. Thomas Charles
843 Serepeca, Miss. Augusta
844 Lemberopolous, Mr. Peter L
845 Culumovic, Mr. Jeso
846 Abbing, Mr. Anthony
847 Sage, Mr. Douglas Bullen
848 Markoff, Mr. Marin
849 Harper, Rev. John
850 Goldenberg, Mrs. Samuel L (Edwiga Grabowska)
851 Andersson, Master. Sigvard Harald Elias
852 Svensson, Mr. Johan
853 Boulos, Miss. Nourelain
854 Lines, Miss. Mary Conover
855 Carter, Mrs. Ernest Courtenay (Lilian Hughes)
856 Aks, Mrs. Sam (Leah Rosen)
857 Wick, Mrs. George Dennick (Mary Hitchcock)
858 Daly, Mr. Peter Denis
859 Baclini, Mrs. Solomon (Latifa Qurban)
860 Razi, Mr. Raihed
861 Hansen, Mr. Claus Peter
862 Giles, Mr. Frederick Edward
863 Swift, Mrs. Frederick Joel (Margaret Welles Barron)
864 Sage, Miss. Dorothy Edith "Dolly"
865 Gill, Mr. John William
866 Bystrom, Mrs. (Karolina)
867 Duran y More, Miss. Asuncion
868 Roebling, Mr. Washington Augustus II
869 van Melkebeke, Mr. Philemon
870 Johnson, Master. Harold Theodor
871 Balkic, Mr. Cerin
872 Beckwith, Mrs. Richard Leonard (Sallie Monypeny)
873 Carlsson, Mr. Frans Olof
874 Vander Cruyssen, Mr. Victor
875 Abelson, Mrs. Samuel (Hannah Wizosky)
876 Najib, Miss. Adele Kiamie "Jane"
877 Gustafsson, Mr. Alfred Ossian
878 Petroff, Mr. Nedelio
879 Laleff, Mr. Kristo
880 Potter, Mrs. Thomas Jr (Lily Alexenia Wilson)
881 Shelley, Mrs. William (Imanita Parrish Hall)
882 Markun, Mr. Johann
883 Dahlberg, Miss. Gerda Ulrika
884 Banfield, Mr. Frederick James
885 Sutehall, Mr. Henry Jr
886 Rice, Mrs. William (Margaret Norton)
887 Montvila, Rev. Juozas
888 Graham, Miss. Margaret Edith
889 Johnston, Miss. Catherine Helen "Carrie"

## 890				Behr, Mr. Karl Howell
## 891				Dooley, Mr. Patrick
## sex age sib_sp parch				cabin
## 1 male 22.00 1 0	A/5 21171	7.2500		<NA>
## 2 female 38.00 1 0	PC 17599	71.2833		C85
## 3 female 26.00 0 0	STON/O2. 3101282	7.9250		<NA>
## 4 female 35.00 1 0		113803	53.1000	C123
## 5 male 35.00 0 0		373450	8.0500	<NA>
## 6 male NA 0 0		330877	8.4583	<NA>
## 7 male 54.00 0 0		17463	51.8625	E46
## 8 male 2.00 3 1		349909	21.0750	<NA>
## 9 female 27.00 0 2		347742	11.1333	<NA>
## 10 female 14.00 1 0		237736	30.0708	<NA>
## 11 female 4.00 1 1	PP 9549	16.7000		G6
## 12 female 58.00 0 0		113783	26.5500	C103
## 13 male 20.00 0 0	A/5. 2151	8.0500		<NA>
## 14 male 39.00 1 5		347082	31.2750	<NA>
## 15 female 14.00 0 0		350406	7.8542	<NA>
## 16 female 55.00 0 0		248706	16.0000	<NA>
## 17 male 2.00 4 1		382652	29.1250	<NA>
## 18 male NA 0 0		244373	13.0000	<NA>
## 19 female 31.00 1 0		345763	18.0000	<NA>
## 20 female NA 0 0		2649	7.2250	<NA>
## 21 male 35.00 0 0		239865	26.0000	<NA>
## 22 male 34.00 0 0		248698	13.0000	D56
## 23 female 15.00 0 0		330923	8.0292	<NA>
## 24 male 28.00 0 0		113788	35.5000	A6
## 25 female 8.00 3 1		349909	21.0750	<NA>
## 26 female 38.00 1 5		347077	31.3875	<NA>
## 27 male NA 0 0		2631	7.2250	<NA>
## 28 male 19.00 3 2		19950	263.0000	C23 C25 C27
## 29 female NA 0 0		330959	7.8792	<NA>
## 30 male NA 0 0		349216	7.8958	<NA>
## 31 male 40.00 0 0		PC 17601	27.7208	<NA>
## 32 female NA 1 0		PC 17569	146.5208	B78
## 33 female NA 0 0		335677	7.7500	<NA>
## 34 male 66.00 0 0		C.A. 24579	10.5000	<NA>
## 35 male 28.00 1 0		PC 17604	82.1708	<NA>
## 36 male 42.00 1 0		113789	52.0000	<NA>
## 37 male NA 0 0		2677	7.2292	<NA>
## 38 male 21.00 0 0		A./5. 2152	8.0500	<NA>
## 39 female 18.00 2 0		345764	18.0000	<NA>
## 40 female 14.00 1 0		2651	11.2417	<NA>
## 41 female 40.00 1 0		7546	9.4750	<NA>
## 42 female 27.00 1 0		11668	21.0000	<NA>
## 43 male NA 0 0		349253	7.8958	<NA>
## 44 female 3.00 1 2	SC/Paris 2123	41.5792		<NA>
## 45 female 19.00 0 0		330958	7.8792	<NA>
## 46 male NA 0 0	S.C./A.4. 23567	8.0500		<NA>
## 47 male NA 1 0		370371	15.5000	<NA>
## 48 female NA 0 0		14311	7.7500	<NA>
## 49 male NA 2 0		2662	21.6792	<NA>
## 50 female 18.00 1 0		349237	17.8000	<NA>
## 51 male 7.00 4 1		3101295	39.6875	<NA>

## 52	male	21.00	0	0	A/4.	39886	7.8000	<NA>
## 53	female	49.00	1	0	PC	17572	76.7292	D33
## 54	female	29.00	1	0		2926	26.0000	<NA>
## 55	male	65.00	0	1		113509	61.9792	B30
## 56	male	NA	0	0		19947	35.5000	C52
## 57	female	21.00	0	0	C.A.	31026	10.5000	<NA>
## 58	male	28.50	0	0		2697	7.2292	<NA>
## 59	female	5.00	1	2	C.A.	34651	27.7500	<NA>
## 60	male	11.00	5	2	CA	2144	46.9000	<NA>
## 61	male	22.00	0	0		2669	7.2292	<NA>
## 62	female	38.00	0	0		113572	80.0000	B28
## 63	male	45.00	1	0		36973	83.4750	C83
## 64	male	4.00	3	2		347088	27.9000	<NA>
## 65	male	NA	0	0	PC	17605	27.7208	<NA>
## 66	male	NA	1	1		2661	15.2458	<NA>
## 67	female	29.00	0	0	C.A.	29395	10.5000	F33
## 68	male	19.00	0	0	S.P.	3464	8.1583	<NA>
## 69	female	17.00	4	2		3101281	7.9250	<NA>
## 70	male	26.00	2	0		315151	8.6625	<NA>
## 71	male	32.00	0	0	C.A.	33111	10.5000	<NA>
## 72	female	16.00	5	2	CA	2144	46.9000	<NA>
## 73	male	21.00	0	0	S.O.C.	14879	73.5000	<NA>
## 74	male	26.00	1	0		2680	14.4542	<NA>
## 75	male	32.00	0	0		1601	56.4958	<NA>
## 76	male	25.00	0	0		348123	7.6500	F G73
## 77	male	NA	0	0		349208	7.8958	<NA>
## 78	male	NA	0	0		374746	8.0500	<NA>
## 79	male	0.83	0	2		248738	29.0000	<NA>
## 80	female	30.00	0	0		364516	12.4750	<NA>
## 81	male	22.00	0	0		345767	9.0000	<NA>
## 82	male	29.00	0	0		345779	9.5000	<NA>
## 83	female	NA	0	0		330932	7.7875	<NA>
## 84	male	28.00	0	0		113059	47.1000	<NA>
## 85	female	17.00	0	0	SO/C	14885	10.5000	<NA>
## 86	female	33.00	3	0		3101278	15.8500	<NA>
## 87	male	16.00	1	3	W./C.	6608	34.3750	<NA>
## 88	male	NA	0	0	SOTON/OQ	392086	8.0500	<NA>
## 89	female	23.00	3	2		19950	263.0000	C23 C25 C27
## 90	male	24.00	0	0		343275	8.0500	<NA>
## 91	male	29.00	0	0		343276	8.0500	<NA>
## 92	male	20.00	0	0		347466	7.8542	<NA>
## 93	male	46.00	1	0	W.E.P.	5734	61.1750	E31
## 94	male	26.00	1	2	C.A.	2315	20.5750	<NA>
## 95	male	59.00	0	0		364500	7.2500	<NA>
## 96	male	NA	0	0		374910	8.0500	<NA>
## 97	male	71.00	0	0	PC	17754	34.6542	A5
## 98	male	23.00	0	1	PC	17759	63.3583	D10 D12
## 99	female	34.00	0	1		231919	23.0000	<NA>
## 100	male	34.00	1	0		244367	26.0000	<NA>
## 101	female	28.00	0	0		349245	7.8958	<NA>
## 102	male	NA	0	0		349215	7.8958	<NA>
## 103	male	21.00	0	1		35281	77.2875	D26
## 104	male	33.00	0	0		7540	8.6542	<NA>
## 105	male	37.00	2	0		3101276	7.9250	<NA>

## 106	male	28.00	0	0	349207	7.8958	<NA>
## 107	female	21.00	0	0	343120	7.6500	<NA>
## 108	male	NA	0	0	312991	7.7750	<NA>
## 109	male	38.00	0	0	349249	7.8958	<NA>
## 110	female	NA	1	0	371110	24.1500	<NA>
## 111	male	47.00	0	0	110465	52.0000	C110
## 112	female	14.50	1	0	2665	14.4542	<NA>
## 113	male	22.00	0	0	324669	8.0500	<NA>
## 114	female	20.00	1	0	4136	9.8250	<NA>
## 115	female	17.00	0	0	2627	14.4583	<NA>
## 116	male	21.00	0	0	STON/0 2.	3101294	7.9250
## 117	male	70.50	0	0	370369	7.7500	<NA>
## 118	male	29.00	1	0	11668	21.0000	<NA>
## 119	male	24.00	0	1	PC 17558	247.5208	B58 B60
## 120	female	2.00	4	2	347082	31.2750	<NA>
## 121	male	21.00	2	0	S.O.C. 14879	73.5000	<NA>
## 122	male	NA	0	0	A4. 54510	8.0500	<NA>
## 123	male	32.50	1	0	237736	30.0708	<NA>
## 124	female	32.50	0	0	27267	13.0000	E101
## 125	male	54.00	0	1	35281	77.2875	D26
## 126	male	12.00	1	0	2651	11.2417	<NA>
## 127	male	NA	0	0	370372	7.7500	<NA>
## 128	male	24.00	0	0	C 17369	7.1417	<NA>
## 129	female	NA	1	1	2668	22.3583	F E69
## 130	male	45.00	0	0	347061	6.9750	<NA>
## 131	male	33.00	0	0	349241	7.8958	<NA>
## 132	male	20.00	0	0	SOTON/O.Q. 3101307	7.0500	<NA>
## 133	female	47.00	1	0	A/5. 3337	14.5000	<NA>
## 134	female	29.00	1	0	228414	26.0000	<NA>
## 135	male	25.00	0	0	C.A. 29178	13.0000	<NA>
## 136	male	23.00	0	0	SC/PARIS 2133	15.0458	<NA>
## 137	female	19.00	0	2	11752	26.2833	D47
## 138	male	37.00	1	0	113803	53.1000	C123
## 139	male	16.00	0	0	7534	9.2167	<NA>
## 140	male	24.00	0	0	PC 17593	79.2000	B86
## 141	female	NA	0	2	2678	15.2458	<NA>
## 142	female	22.00	0	0	347081	7.7500	<NA>
## 143	female	24.00	1	0	STON/02. 3101279	15.8500	<NA>
## 144	male	19.00	0	0	365222	6.7500	<NA>
## 145	male	18.00	0	0	231945	11.5000	<NA>
## 146	male	19.00	1	1	C.A. 33112	36.7500	<NA>
## 147	male	27.00	0	0	350043	7.7958	<NA>
## 148	female	9.00	2	2	W./C. 6608	34.3750	<NA>
## 149	male	36.50	0	2	230080	26.0000	F2
## 150	male	42.00	0	0	244310	13.0000	<NA>
## 151	male	51.00	0	0	S.O.P. 1166	12.5250	<NA>
## 152	female	22.00	1	0	113776	66.6000	C2
## 153	male	55.50	0	0	A.5. 11206	8.0500	<NA>
## 154	male	40.50	0	2	A/5. 851	14.5000	<NA>
## 155	male	NA	0	0	Fa 265302	7.3125	<NA>
## 156	male	51.00	0	1	PC 17597	61.3792	<NA>
## 157	female	16.00	0	0	35851	7.7333	<NA>
## 158	male	30.00	0	0	SOTON/OQ 392090	8.0500	<NA>
## 159	male	NA	0	0	315037	8.6625	<NA>

## 160	male	NA	8	2	CA.	2343	69.5500	<NA>
## 161	male	44.00	0	1		371362	16.1000	<NA>
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## 163	male	26.00	0	0		347068	7.7750	<NA>
## 164	male	17.00	0	0		315093	8.6625	<NA>
## 165	male	1.00	4	1		3101295	39.6875	<NA>
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## 167	female	NA	0	1		113505	55.0000	E33
## 168	female	45.00	1	4		347088	27.9000	<NA>
## 169	male	NA	0	0	PC	17318	25.9250	<NA>
## 170	male	28.00	0	0		1601	56.4958	<NA>
## 171	male	61.00	0	0		111240	33.5000	B19
## 172	male	4.00	4	1		382652	29.1250	<NA>
## 173	female	1.00	1	1		347742	11.1333	<NA>
## 174	male	21.00	0	0	STON/O	2. 3101280	7.9250	<NA>
## 175	male	56.00	0	0		17764	30.6958	A7
## 176	male	18.00	1	1		350404	7.8542	<NA>
## 177	male	NA	3	1		4133	25.4667	<NA>
## 178	female	50.00	0	0	PC	17595	28.7125	C49
## 179	male	30.00	0	0		250653	13.0000	<NA>
## 180	male	36.00	0	0		LINE	0.0000	<NA>
## 181	female	NA	8	2		CA.	2343	69.5500
## 182	male	NA	0	0	SC/PARIS	2131	15.0500	<NA>
## 183	male	9.00	4	2		347077	31.3875	<NA>
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## 185	female	4.00	0	2		315153	22.0250	<NA>
## 186	male	NA	0	0		113767	50.0000	A32
## 187	female	NA	1	0		370365	15.5000	<NA>
## 188	male	45.00	0	0		111428	26.5500	<NA>
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## 191	female	32.00	0	0		234604	13.0000	<NA>
## 192	male	19.00	0	0		28424	13.0000	<NA>
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## 194	male	3.00	1	1		230080	26.0000	F2
## 195	female	44.00	0	0	PC	17610	27.7208	B4
## 196	female	58.00	0	0	PC	17569	146.5208	B80
## 197	male	NA	0	0		368703	7.7500	<NA>
## 198	male	42.00	0	1		4579	8.4042	<NA>
## 199	female	NA	0	0		370370	7.7500	<NA>
## 200	female	24.00	0	0		248747	13.0000	<NA>
## 201	male	28.00	0	0		345770	9.5000	<NA>
## 202	male	NA	8	2	CA.	2343	69.5500	<NA>
## 203	male	34.00	0	0		3101264	6.4958	<NA>
## 204	male	45.50	0	0		2628	7.2250	<NA>
## 205	male	18.00	0	0	A/5	3540	8.0500	<NA>
## 206	female	2.00	0	1		347054	10.4625	G6
## 207	male	32.00	1	0		3101278	15.8500	<NA>
## 208	male	26.00	0	0		2699	18.7875	<NA>
## 209	female	16.00	0	0		367231	7.7500	<NA>
## 210	male	40.00	0	0		112277	31.0000	A31
## 211	male	24.00	0	0	SOTON/O.Q.	3101311	7.0500	<NA>
## 212	female	35.00	0	0	F.C.C.	13528	21.0000	<NA>
## 213	male	22.00	0	0	A/5	21174	7.2500	<NA>

## 214	male	30.00	0	0	250646	13.0000	<NA>	
## 215	male	NA	1	0	367229	7.7500	<NA>	
## 216	female	31.00	1	0	35273	113.2750	D36	
## 217	female	27.00	0	0	STON/02.	3101283	7.9250	<NA>
## 218	male	42.00	1	0	243847	27.0000	<NA>	
## 219	female	32.00	0	0	11813	76.2917	D15	
## 220	male	30.00	0	0	W/C	14208	10.5000	<NA>
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## 222	male	27.00	0	0	220367	13.0000	<NA>	
## 223	male	51.00	0	0	21440	8.0500	<NA>	
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## 225	male	38.00	1	0	19943	90.0000	C93	
## 226	male	22.00	0	0	PP	4348	9.3500	<NA>
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## 229	male	18.00	0	0	236171	13.0000	<NA>	
## 230	female	NA	3	1	4133	25.4667	<NA>	
## 231	female	35.00	1	0	36973	83.4750	C83	
## 232	male	29.00	0	0	347067	7.7750	<NA>	
## 233	male	59.00	0	0	237442	13.5000	<NA>	
## 234	female	5.00	4	2	347077	31.3875	<NA>	
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## 237	male	44.00	1	0	26707	26.0000	<NA>	
## 238	female	8.00	0	2	C.A.	31921	26.2500	<NA>
## 239	male	19.00	0	0	28665	10.5000	<NA>	
## 240	male	33.00	0	0	SCO/W	1585	12.2750	<NA>
## 241	female	NA	1	0	2665	14.4542	<NA>	
## 242	female	NA	1	0	367230	15.5000	<NA>	
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## 244	male	22.00	0	0	STON/02.	3101275	7.1250	<NA>
## 245	male	30.00	0	0	2694	7.2250	<NA>	
## 246	male	44.00	2	0	19928	90.0000	C78	
## 247	female	25.00	0	0	347071	7.7750	<NA>	
## 248	female	24.00	0	2	250649	14.5000	<NA>	
## 249	male	37.00	1	1	11751	52.5542	D35	
## 250	male	54.00	1	0	244252	26.0000	<NA>	
## 251	male	NA	0	0	362316	7.2500	<NA>	
## 252	female	29.00	1	1	347054	10.4625	G6	
## 253	male	62.00	0	0	113514	26.5500	C87	
## 254	male	30.00	1	0	A/5.	3336	16.1000	<NA>
## 255	female	41.00	0	2	370129	20.2125	<NA>	
## 256	female	29.00	0	2	2650	15.2458	<NA>	
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## 258	female	30.00	0	0	110152	86.5000	B77	
## 259	female	35.00	0	0	PC	17755	512.3292	<NA>
## 260	female	50.00	0	1	230433	26.0000	<NA>	
## 261	male	NA	0	0	384461	7.7500	<NA>	
## 262	male	3.00	4	2	347077	31.3875	<NA>	
## 263	male	52.00	1	1	110413	79.6500	E67	
## 264	male	40.00	0	0	112059	0.0000	B94	
## 265	female	NA	0	0	382649	7.7500	<NA>	
## 266	male	36.00	0	0	C.A.	17248	10.5000	<NA>
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## 268	male	25.00	1	0	347083	7.7750	<NA>
## 269	female	58.00	0	1	PC 17582	153.4625	C125
## 270	female	35.00	0	0	PC 17760	135.6333	C99
## 271	male	NA	0	0	113798	31.0000	<NA>
## 272	male	25.00	0	0	LINE	0.0000	<NA>
## 273	female	41.00	0	1	250644	19.5000	<NA>
## 274	male	37.00	0	1	PC 17596	29.7000	C118
## 275	female	NA	0	0	370375	7.7500	<NA>
## 276	female	63.00	1	0	13502	77.9583	D7
## 277	female	45.00	0	0	347073	7.7500	<NA>
## 278	male	NA	0	0	239853	0.0000	<NA>
## 279	male	7.00	4	1	382652	29.1250	<NA>
## 280	female	35.00	1	1	C.A. 2673	20.2500	<NA>
## 281	male	65.00	0	0	336439	7.7500	<NA>
## 282	male	28.00	0	0	347464	7.8542	<NA>
## 283	male	16.00	0	0	345778	9.5000	<NA>
## 284	male	19.00	0	0	A/5. 10482	8.0500	<NA>
## 285	male	NA	0	0	113056	26.0000	A19
## 286	male	33.00	0	0	349239	8.6625	<NA>
## 287	male	30.00	0	0	345774	9.5000	<NA>
## 288	male	22.00	0	0	349206	7.8958	<NA>
## 289	male	42.00	0	0	237798	13.0000	<NA>
## 290	female	22.00	0	0	370373	7.7500	<NA>
## 291	female	26.00	0	0	19877	78.8500	<NA>
## 292	female	19.00	1	0	11967	91.0792	B49
## 293	male	36.00	0	0	SC/Paris 2163	12.8750	D
## 294	female	24.00	0	0	349236	8.8500	<NA>
## 295	male	24.00	0	0	349233	7.8958	<NA>
## 296	male	NA	0	0	PC 17612	27.7208	<NA>
## 297	male	23.50	0	0	2693	7.2292	<NA>
## 298	female	2.00	1	2	113781	151.5500	C22 C26
## 299	male	NA	0	0	19988	30.5000	C106
## 300	female	50.00	0	1	PC 17558	247.5208	B58 B60
## 301	female	NA	0	0	9234	7.7500	<NA>
## 302	male	NA	2	0	367226	23.2500	<NA>
## 303	male	19.00	0	0	LINE	0.0000	<NA>
## 304	female	NA	0	0	226593	12.3500	E101
## 305	male	NA	0	0	A/5 2466	8.0500	<NA>
## 306	male	0.92	1	2	113781	151.5500	C22 C26
## 307	female	NA	0	0	17421	110.8833	<NA>
## 308	female	17.00	1	0	PC 17758	108.9000	C65
## 309	male	30.00	1	0	P/PP 3381	24.0000	<NA>
## 310	female	30.00	0	0	PC 17485	56.9292	E36
## 311	female	24.00	0	0	11767	83.1583	C54
## 312	female	18.00	2	2	PC 17608	262.3750	B57 B59 B63 B66
## 313	female	26.00	1	1	250651	26.0000	<NA>
## 314	male	28.00	0	0	349243	7.8958	<NA>
## 315	male	43.00	1	1	F.C.C. 13529	26.2500	<NA>
## 316	female	26.00	0	0	347470	7.8542	<NA>
## 317	female	24.00	1	0	244367	26.0000	<NA>
## 318	male	54.00	0	0	29011	14.0000	<NA>
## 319	female	31.00	0	2	36928	164.8667	C7
## 320	female	40.00	1	1	16966	134.5000	E34
## 321	male	22.00	0	0	A/5 21172	7.2500	<NA>

## 322	male	27.00	0	0	349219	7.8958	<NA>	
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## 324	female	22.00	1	1	248738	29.0000	<NA>	
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## 326	female	36.00	0	0	PC	17760	135.6333	C32
## 327	male	61.00	0	0	345364	6.2375	<NA>	
## 328	female	36.00	0	0	28551	13.0000	D	
## 329	female	31.00	1	1	363291	20.5250	<NA>	
## 330	female	16.00	0	1	111361	57.9792	B18	
## 331	female	NA	2	0	367226	23.2500	<NA>	
## 332	male	45.50	0	0	113043	28.5000	C124	
## 333	male	38.00	0	1	PC	17582	153.4625	C91
## 334	male	16.00	2	0	345764	18.0000	<NA>	
## 335	female	NA	1	0	PC	17611	133.6500	<NA>
## 336	male	NA	0	0	349225	7.8958	<NA>	
## 337	male	29.00	1	0	113776	66.6000	C2	
## 338	female	41.00	0	0	16966	134.5000	E40	
## 339	male	45.00	0	0	7598	8.0500	<NA>	
## 340	male	45.00	0	0	113784	35.5000	T	
## 341	male	2.00	1	1	230080	26.0000	F2	
## 342	female	24.00	3	2	19950	263.0000	C23 C25 C27	
## 343	male	28.00	0	0	248740	13.0000	<NA>	
## 344	male	25.00	0	0	244361	13.0000	<NA>	
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## 347	female	40.00	0	0	31418	13.0000	<NA>	
## 348	female	NA	1	0	386525	16.1000	<NA>	
## 349	male	3.00	1	1	C.A.	37671	15.9000	<NA>
## 350	male	42.00	0	0	315088	8.6625	<NA>	
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## 353	male	15.00	1	1	2695	7.2292	<NA>	
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## 357	female	22.00	0	1	113505	55.0000	E33	
## 358	female	38.00	0	0	237671	13.0000	<NA>	
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## 363	female	45.00	0	1	2691	14.4542	<NA>	
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## 365	male	NA	1	0	370365	15.5000	<NA>	
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## 368	female	NA	0	0	2626	7.2292	<NA>	
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## 370	female	24.00	0	0	PC	17477	69.3000	B35
## 371	male	25.00	1	0	11765	55.4417	E50	
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## 373	male	19.00	0	0	323951	8.0500	<NA>	
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## 379	male	20.00	0	0		2648	4.0125	<NA>	
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## 392	male	21.00	0	0		350034	7.7958	<NA>	
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## 395	female	24.00	0	2	PP	9549	16.7000	G6	
## 396	male	22.00	0	0		350052	7.7958	<NA>	
## 397	female	31.00	0	0		350407	7.8542	<NA>	
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## 401	male	39.00	0	0	STON/0	2.	3101289	7.9250	<NA>
## 402	male	26.00	0	0		341826	8.0500	<NA>	
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## 408	male	3.00	1	1		29106	18.7500	<NA>	
## 409	male	21.00	0	0		312992	7.7750	<NA>	
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## 413	female	33.00	1	0		19928	90.0000	C78	
## 414	male	NA	0	0		239853	0.0000	<NA>	
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## 416	female	NA	0	0		343095	8.0500	<NA>	
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## 427	female	28.00	1	0		2003	26.0000	<NA>	
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## 430	male	32.00	0	0	SOTON/O.Q.	392078	8.0500	E10
## 431	male	28.00	0	0		110564	26.5500	C52
## 432	female	NA	1	0		376564	16.1000	<NA>
## 433	female	42.00	1	0	SC/AH	3085	26.0000	<NA>
## 434	male	17.00	0	0	STON/O	2. 3101274	7.1250	<NA>
## 435	male	50.00	1	0		13507	55.9000	E44
## 436	female	14.00	1	2		113760	120.0000	B96 B98
## 437	female	21.00	2	2	W./C.	6608	34.3750	<NA>
## 438	female	24.00	2	3		29106	18.7500	<NA>
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## 440	male	31.00	0	0	C.A.	18723	10.5000	<NA>
## 441	female	45.00	1	1	F.C.C.	13529	26.2500	<NA>
## 442	male	20.00	0	0		345769	9.5000	<NA>
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## 446	male	4.00	0	2		33638	81.8583	A34
## 447	female	13.00	0	1		250644	19.5000	<NA>
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## 450	male	52.00	0	0		113786	30.5000	C104
## 451	male	36.00	1	2	C.A.	34651	27.7500	<NA>
## 452	male	NA	1	0		65303	19.9667	<NA>
## 453	male	30.00	0	0		113051	27.7500	C111
## 454	male	49.00	1	0		17453	89.1042	C92
## 455	male	NA	0	0	A/5	2817	8.0500	<NA>
## 456	male	29.00	0	0		349240	7.8958	<NA>
## 457	male	65.00	0	0		13509	26.5500	E38
## 458	female	NA	1	0		17464	51.8625	D21
## 459	female	50.00	0	0	F.C.C.	13531	10.5000	<NA>
## 460	male	NA	0	0		371060	7.7500	<NA>
## 461	male	48.00	0	0		19952	26.5500	E12
## 462	male	34.00	0	0		364506	8.0500	<NA>
## 463	male	47.00	0	0		111320	38.5000	E63
## 464	male	48.00	0	0		234360	13.0000	<NA>
## 465	male	NA	0	0	A/S	2816	8.0500	<NA>
## 466	male	38.00	0	0	SOTON/O.Q.	3101306	7.0500	<NA>
## 467	male	NA	0	0		239853	0.0000	<NA>
## 468	male	56.00	0	0		113792	26.5500	<NA>
## 469	male	NA	0	0		36209	7.7250	<NA>
## 470	female	0.75	2	1		2666	19.2583	<NA>
## 471	male	NA	0	0		323592	7.2500	<NA>
## 472	male	38.00	0	0		315089	8.6625	<NA>
## 473	female	33.00	1	2	C.A.	34651	27.7500	<NA>
## 474	female	23.00	0	0	SC/AH Basle	541	13.7917	D
## 475	female	22.00	0	0		7553	9.8375	<NA>
## 476	male	NA	0	0		110465	52.0000	A14
## 477	male	34.00	1	0		31027	21.0000	<NA>
## 478	male	29.00	1	0		3460	7.0458	<NA>
## 479	male	22.00	0	0		350060	7.5208	<NA>
## 480	female	2.00	0	1		3101298	12.2875	<NA>
## 481	male	9.00	5	2	CA	2144	46.9000	<NA>
## 482	male	NA	0	0		239854	0.0000	<NA>
## 483	male	50.00	0	0	A/5	3594	8.0500	<NA>

## 484	female	63.00	0	0	4134	9.5875	<NA>	
## 485	male	25.00	1	0	11967	91.0792	B49	
## 486	female	NA	3	1	4133	25.4667	<NA>	
## 487	female	35.00	1	0	19943	90.0000	C93	
## 488	male	58.00	0	0	11771	29.7000	B37	
## 489	male	30.00	0	0	A.5.	18509	8.0500	
## 490	male	9.00	1	1	C.A.	37671	15.9000	
## 491	male	NA	1	0	65304	19.9667	<NA>	
## 492	male	21.00	0	0	SOTON/OQ	3101317	7.2500	
## 493	male	55.00	0	0		113787	30.5000	
## 494	male	71.00	0	0	PC	17609	49.5042	
## 495	male	21.00	0	0	A/4	45380	8.0500	
## 496	male	NA	0	0		2627	14.4583	
## 497	female	54.00	1	0		36947	78.2667	
## 498	male	NA	0	0	C.A.	6212	15.1000	
## 499	female	25.00	1	2		113781	151.5500	
## 500	male	24.00	0	0		350035	7.7958	
## 501	male	17.00	0	0		315086	8.6625	
## 502	female	21.00	0	0		364846	7.7500	
## 503	female	NA	0	0		330909	7.6292	
## 504	female	37.00	0	0		4135	9.5875	
## 505	female	16.00	0	0		110152	86.5000	
## 506	male	18.00	1	0	PC	17758	108.9000	
## 507	female	33.00	0	2		26360	26.0000	
## 508	male	NA	0	0		111427	26.5500	
## 509	male	28.00	0	0	C	4001	22.5250	
## 510	male	26.00	0	0		1601	56.4958	
## 511	male	29.00	0	0		382651	7.7500	
## 512	male	NA	0	0	SOTON/OQ	3101316	8.0500	
## 513	male	36.00	0	0	PC	17473	26.2875	
## 514	female	54.00	1	0	PC	17603	59.4000	
## 515	male	24.00	0	0		349209	7.4958	
## 516	male	47.00	0	0		36967	34.0208	
## 517	female	34.00	0	0	C.A.	34260	10.5000	
## 518	male	NA	0	0		371110	24.1500	
## 519	female	36.00	1	0		226875	26.0000	
## 520	male	32.00	0	0		349242	7.8958	
## 521	female	30.00	0	0		12749	93.5000	
## 522	male	22.00	0	0		349252	7.8958	
## 523	male	NA	0	0		2624	7.2250	
## 524	female	44.00	0	1		111361	57.9792	
## 525	male	NA	0	0		2700	7.2292	
## 526	male	40.50	0	0		367232	7.7500	
## 527	female	50.00	0	0	W./C.	14258	10.5000	
## 528	male	NA	0	0		PC	17483	221.7792
## 529	male	39.00	0	0		3101296	7.9250	
## 530	male	23.00	2	1		29104	11.5000	
## 531	female	2.00	1	1		26360	26.0000	
## 532	male	NA	0	0		2641	7.2292	
## 533	male	17.00	1	1		2690	7.2292	
## 534	female	NA	0	2		2668	22.3583	
## 535	female	30.00	0	0		315084	8.6625	
## 536	female	7.00	0	2	F.C.C.	13529	26.2500	
## 537	male	45.00	0	0		113050	26.5500	

## 538	female	30.00	0	0	PC	17761	106.4250	<NA>
## 539	male	NA	0	0		364498	14.5000	<NA>
## 540	female	22.00	0	2		13568	49.5000	B39
## 541	female	36.00	0	2	WE/P	5735	71.0000	B22
## 542	female	9.00	4	2		347082	31.2750	<NA>
## 543	female	11.00	4	2		347082	31.2750	<NA>
## 544	male	32.00	1	0		2908	26.0000	<NA>
## 545	male	50.00	1	0	PC	17761	106.4250	C86
## 546	male	64.00	0	0		693	26.0000	<NA>
## 547	female	19.00	1	0		2908	26.0000	<NA>
## 548	male	NA	0	0	SC/PARIS	2146	13.8625	<NA>
## 549	male	33.00	1	1		363291	20.5250	<NA>
## 550	male	8.00	1	1	C.A.	33112	36.7500	<NA>
## 551	male	17.00	0	2		17421	110.8833	C70
## 552	male	27.00	0	0		244358	26.0000	<NA>
## 553	male	NA	0	0		330979	7.8292	<NA>
## 554	male	22.00	0	0		2620	7.2250	<NA>
## 555	female	22.00	0	0		347085	7.7750	<NA>
## 556	male	62.00	0	0		113807	26.5500	<NA>
## 557	female	48.00	1	0		11755	39.6000	A16
## 558	male	NA	0	0	PC	17757	227.5250	<NA>
## 559	female	39.00	1	1		110413	79.6500	E67
## 560	female	36.00	1	0		345572	17.4000	<NA>
## 561	male	NA	0	0		372622	7.7500	<NA>
## 562	male	40.00	0	0		349251	7.8958	<NA>
## 563	male	28.00	0	0		218629	13.5000	<NA>
## 564	male	NA	0	0	SOTON/DQ	392082	8.0500	<NA>
## 565	female	NA	0	0	SOTON/O.Q.	392087	8.0500	<NA>
## 566	male	24.00	2	0		A/4	48871	24.1500
## 567	male	19.00	0	0		349205	7.8958	<NA>
## 568	female	29.00	0	4		349909	21.0750	<NA>
## 569	male	NA	0	0		2686	7.2292	<NA>
## 570	male	32.00	0	0		350417	7.8542	<NA>
## 571	male	62.00	0	0	S.W./PP	752	10.5000	<NA>
## 572	female	53.00	2	0		11769	51.4792	C101
## 573	male	36.00	0	0	PC	17474	26.3875	E25
## 574	female	NA	0	0		14312	7.7500	<NA>
## 575	male	16.00	0	0	A/4.	20589	8.0500	<NA>
## 576	male	19.00	0	0		358585	14.5000	<NA>
## 577	female	34.00	0	0		243880	13.0000	<NA>
## 578	female	39.00	1	0		13507	55.9000	E44
## 579	female	NA	1	0		2689	14.4583	<NA>
## 580	male	32.00	0	0	STON/O	2.	3101286	7.9250
## 581	female	25.00	1	1		237789	30.0000	<NA>
## 582	female	39.00	1	1		17421	110.8833	C68
## 583	male	54.00	0	0		28403	26.0000	<NA>
## 584	male	36.00	0	0		13049	40.1250	A10
## 585	male	NA	0	0		3411	8.7125	<NA>
## 586	female	18.00	0	2		110413	79.6500	E68
## 587	male	47.00	0	0		237565	15.0000	<NA>
## 588	male	60.00	1	1		13567	79.2000	B41
## 589	male	22.00	0	0		14973	8.0500	<NA>
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## 592	female	52.00	1	0	36947	78.2667	D20
## 593	male	47.00	0	0	A/5 3902	7.2500	<NA>
## 594	female	NA	0	2	364848	7.7500	<NA>
## 595	male	37.00	1	0	SC/AH 29037	26.0000	<NA>
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## 597	female	NA	0	0	248727	33.0000	<NA>
## 598	male	49.00	0	0	LINE	0.0000	<NA>
## 599	male	NA	0	0	2664	7.2250	<NA>
## 600	male	49.00	1	0	PC 17485	56.9292	A20
## 601	female	24.00	2	1	243847	27.0000	<NA>
## 602	male	NA	0	0	349214	7.8958	<NA>
## 603	male	NA	0	0	113796	42.4000	<NA>
## 604	male	44.00	0	0	364511	8.0500	<NA>
## 605	male	35.00	0	0	111426	26.5500	<NA>
## 606	male	36.00	1	0	349910	15.5500	<NA>
## 607	male	30.00	0	0	349246	7.8958	<NA>
## 608	male	27.00	0	0	113804	30.5000	<NA>
## 609	female	22.00	1	2	SC/Paris 2123	41.5792	<NA>
## 610	female	40.00	0	0	PC 17582	153.4625	C125
## 611	female	39.00	1	5	347082	31.2750	<NA>
## 612	male	NA	0	0	SOTON/O.Q. 3101305	7.0500	<NA>
## 613	female	NA	1	0	367230	15.5000	<NA>
## 614	male	NA	0	0	370377	7.7500	<NA>
## 615	male	35.00	0	0	364512	8.0500	<NA>
## 616	female	24.00	1	2	220845	65.0000	<NA>
## 617	male	34.00	1	1	347080	14.4000	<NA>
## 618	female	26.00	1	0	A/5. 3336	16.1000	<NA>
## 619	female	4.00	2	1	230136	39.0000	F4
## 620	male	26.00	0	0	31028	10.5000	<NA>
## 621	male	27.00	1	0	2659	14.4542	<NA>
## 622	male	42.00	1	0	11753	52.5542	D19
## 623	male	20.00	1	1	2653	15.7417	<NA>
## 624	male	21.00	0	0	350029	7.8542	<NA>
## 625	male	21.00	0	0	54636	16.1000	<NA>
## 626	male	61.00	0	0	36963	32.3208	D50
## 627	male	57.00	0	0	219533	12.3500	<NA>
## 628	female	21.00	0	0	13502	77.9583	D9
## 629	male	26.00	0	0	349224	7.8958	<NA>
## 630	male	NA	0	0	334912	7.7333	<NA>
## 631	male	80.00	0	0	27042	30.0000	A23
## 632	male	51.00	0	0	347743	7.0542	<NA>
## 633	male	32.00	0	0	13214	30.5000	B50
## 634	male	NA	0	0	112052	0.0000	<NA>
## 635	female	9.00	3	2	347088	27.9000	<NA>
## 636	female	28.00	0	0	237668	13.0000	<NA>
## 637	male	32.00	0	0	STON/O 2. 3101292	7.9250	<NA>
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## 643	female	2.00	3	2	347088	27.9000	<NA>
## 644	male	NA	0	0	1601	56.4958	<NA>
## 645	female	0.75	2	1	2666	19.2583	<NA>

## 646	male	48.00	1	0	PC	17572	76.7292	D33	
## 647	male	19.00	0	0		349231	7.8958	<NA>	
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## 649	male	NA	0	0	S.O./P.P.	751	7.5500	<NA>	
## 650	female	23.00	0	0		CA.	2314	7.5500	<NA>
## 651	male	NA	0	0		349221	7.8958	<NA>	
## 652	female	18.00	0	1		231919	23.0000	<NA>	
## 653	male	21.00	0	0		8475	8.4333	<NA>	
## 654	female	NA	0	0		330919	7.8292	<NA>	
## 655	female	18.00	0	0		365226	6.7500	<NA>	
## 656	male	24.00	2	0	S.O.C.	14879	73.5000	<NA>	
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## 659	male	23.00	0	0		29751	13.0000	<NA>	
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## 661	male	50.00	2	0	PC	17611	133.6500	<NA>	
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## 663	male	47.00	0	0		5727	25.5875	E58	
## 664	male	36.00	0	0		349210	7.4958	<NA>	
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## 666	male	32.00	2	0	S.O.C.	14879	73.5000	<NA>	
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## 669	male	43.00	0	0	A/5	3536	8.0500	<NA>	
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## 671	female	40.00	1	1		29750	39.0000	<NA>	
## 672	male	31.00	1	0	F.C.	12750	52.0000	B71	
## 673	male	70.00	0	0	C.A.	24580	10.5000	<NA>	
## 674	male	31.00	0	0		244270	13.0000	<NA>	
## 675	male	NA	0	0		239856	0.0000	<NA>	
## 676	male	18.00	0	0		349912	7.7750	<NA>	
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## 680	male	36.00	0	1	PC	17755	512.3292	B51 B53 B55	
## 681	female	NA	0	0		330935	8.1375	<NA>	
## 682	male	27.00	0	0	PC	17572	76.7292	D49	
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## 690	female	15.00	0	1		24160	211.3375	B5	
## 691	male	31.00	1	0		17474	57.0000	B20	
## 692	female	4.00	0	1		349256	13.4167	<NA>	
## 693	male	NA	0	0		1601	56.4958	<NA>	
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## 695	male	60.00	0	0		113800	26.5500	<NA>	
## 696	male	52.00	0	0		248731	13.5000	<NA>	
## 697	male	44.00	0	0		363592	8.0500	<NA>	
## 698	female	NA	0	0		35852	7.7333	<NA>	
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## 700	male	42.00	0	0	348121	7.6500	F G63
## 701	female	18.00	1	0	PC 17757	227.5250	C62 C64
## 702	male	35.00	0	0	PC 17475	26.2875	E24
## 703	female	18.00	0	1	2691	14.4542	<NA>
## 704	male	25.00	0	0	36864	7.7417	<NA>
## 705	male	26.00	1	0	350025	7.8542	<NA>
## 706	male	39.00	0	0	250655	26.0000	<NA>
## 707	female	45.00	0	0	223596	13.5000	<NA>
## 708	male	42.00	0	0	PC 17476	26.2875	E24
## 709	female	22.00	0	0	113781	151.5500	<NA>
## 710	male	NA	1	1	2661	15.2458	<NA>
## 711	female	24.00	0	0	PC 17482	49.5042	C90
## 712	male	NA	0	0	113028	26.5500	C124
## 713	male	48.00	1	0	19996	52.0000	C126
## 714	male	29.00	0	0	7545	9.4833	<NA>
## 715	male	52.00	0	0	250647	13.0000	<NA>
## 716	male	19.00	0	0	348124	7.6500	F G73
## 717	female	38.00	0	0	PC 17757	227.5250	C45
## 718	female	27.00	0	0	34218	10.5000	E101
## 719	male	NA	0	0	36568	15.5000	<NA>
## 720	male	33.00	0	0	347062	7.7750	<NA>
## 721	female	6.00	0	1	248727	33.0000	<NA>
## 722	male	17.00	1	0	350048	7.0542	<NA>
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## 724	male	50.00	0	0	250643	13.0000	<NA>
## 725	male	27.00	1	0	113806	53.1000	E8
## 726	male	20.00	0	0	315094	8.6625	<NA>
## 727	female	30.00	3	0	31027	21.0000	<NA>
## 728	female	NA	0	0	36866	7.7375	<NA>
## 729	male	25.00	1	0	236853	26.0000	<NA>
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## 731	female	29.00	0	0	24160	211.3375	B5
## 732	male	11.00	0	0	2699	18.7875	<NA>
## 733	male	NA	0	0	239855	0.0000	<NA>
## 734	male	23.00	0	0	28425	13.0000	<NA>
## 735	male	23.00	0	0	233639	13.0000	<NA>
## 736	male	28.50	0	0	54636	16.1000	<NA>
## 737	female	48.00	1	3	W./C.	6608	34.3750
## 738	male	35.00	0	0	PC 17755	512.3292	B101
## 739	male	NA	0	0	349201	7.8958	<NA>
## 740	male	NA	0	0	349218	7.8958	<NA>
## 741	male	NA	0	0	16988	30.0000	D45
## 742	male	36.00	1	0	19877	78.8500	C46
## 743	female	21.00	2	2	PC 17608	262.3750	B57 B59 B63 B66
## 744	male	24.00	1	0	376566	16.1000	<NA>
## 745	male	31.00	0	0	STON/0	3101288	7.9250
## 746	male	70.00	1	1	WE/P	5735	71.0000
## 747	male	16.00	1	1	C.A.	2673	20.2500
## 748	female	30.00	0	0	250648	13.0000	<NA>
## 749	male	19.00	1	0	113773	53.1000	D30
## 750	male	31.00	0	0	335097	7.7500	<NA>
## 751	female	4.00	1	1	29103	23.0000	<NA>
## 752	male	6.00	0	1	392096	12.4750	E121
## 753	male	33.00	0	0	345780	9.5000	<NA>

## 754	male	23.00	0	0	349204	7.8958	<NA>
## 755	female	48.00	1	2	220845	65.0000	<NA>
## 756	male	0.67	1	1	250649	14.5000	<NA>
## 757	male	28.00	0	0	350042	7.7958	<NA>
## 758	male	18.00	0	0	29108	11.5000	<NA>
## 759	male	34.00	0	0	363294	8.0500	<NA>
## 760	female	33.00	0	0	110152	86.5000	B77
## 761	male	NA	0	0	358585	14.5000	<NA>
## 762	male	41.00	0	0	SOTON/02 3101272	7.1250	<NA>
## 763	male	20.00	0	0	2663	7.2292	<NA>
## 764	female	36.00	1	2	113760	120.0000	B96 B98
## 765	male	16.00	0	0	347074	7.7750	<NA>
## 766	female	51.00	1	0	13502	77.9583	D11
## 767	male	NA	0	0	112379	39.6000	<NA>
## 768	female	30.50	0	0	364850	7.7500	<NA>
## 769	male	NA	1	0	371110	24.1500	<NA>
## 770	male	32.00	0	0	8471	8.3625	<NA>
## 771	male	24.00	0	0	345781	9.5000	<NA>
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## 773	female	57.00	0	0	S.O./P.P. 3	10.5000	E77
## 774	male	NA	0	0	2674	7.2250	<NA>
## 775	female	54.00	1	3	29105	23.0000	<NA>
## 776	male	18.00	0	0	347078	7.7500	<NA>
## 777	male	NA	0	0	383121	7.7500	F38
## 778	female	5.00	0	0	364516	12.4750	<NA>
## 779	male	NA	0	0	36865	7.7375	<NA>
## 780	female	43.00	0	1	24160	211.3375	B3
## 781	female	13.00	0	0	2687	7.2292	<NA>
## 782	female	17.00	1	0	17474	57.0000	B20
## 783	male	29.00	0	0	113501	30.0000	D6
## 784	male	NA	1	2	W./C. 6607	23.4500	<NA>
## 785	male	25.00	0	0	SOTON/O.Q. 3101312	7.0500	<NA>
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## 787	female	18.00	0	0	3101265	7.4958	<NA>
## 788	male	8.00	4	1	382652	29.1250	<NA>
## 789	male	1.00	1	2	C.A. 2315	20.5750	<NA>
## 790	male	46.00	0	0	PC 17593	79.2000	B82 B84
## 791	male	NA	0	0	12460	7.7500	<NA>
## 792	male	16.00	0	0	239865	26.0000	<NA>
## 793	female	NA	8	2	CA. 2343	69.5500	<NA>
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## 797	female	49.00	0	0	17465	25.9292	D17
## 798	female	31.00	0	0	349244	8.6833	<NA>
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## 803	male	11.00	1	2	113760	120.0000	B96 B98
## 804	male	0.42	0	1	2625	8.5167	<NA>
## 805	male	27.00	0	0	347089	6.9750	<NA>
## 806	male	31.00	0	0	347063	7.7750	<NA>
## 807	male	39.00	0	0	112050	0.0000	A36

## 808	female	18.00	0	0	347087	7.7750	<NA>
## 809	male	39.00	0	0	248723	13.0000	<NA>
## 810	female	33.00	1	0	113806	53.1000	E8
## 811	male	26.00	0	0	3474	7.8875	<NA>
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## 816	male	NA	0	0	112058	0.0000	B102
## 817	female	23.00	0	0	STON/02. 3101290	7.9250	<NA>
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## 821	female	52.00	1	1	12749	93.5000	B69
## 822	male	27.00	0	0	315098	8.6625	<NA>
## 823	male	38.00	0	0	19972	0.0000	<NA>
## 824	female	27.00	0	1	392096	12.4750	E121
## 825	male	2.00	4	1	3101295	39.6875	<NA>
## 826	male	NA	0	0	368323	6.9500	<NA>
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## 831	female	15.00	1	0	2659	14.4542	<NA>
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## 837	male	21.00	0	0	315097	8.6625	<NA>
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## 841	male	20.00	0	0	SOTON/02 3101287	7.9250	<NA>
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## 850	female	NA	1	0	17453	89.1042	C92
## 851	male	4.00	4	2	347082	31.2750	<NA>
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## 859	female	24.00	0	3	2666	19.2583	<NA>
## 860	male	NA	0	0	2629	7.2292	<NA>
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## 864	female	NA	8	2	CA.	2343	69.5500
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## 866	female	42.00	0	0	236852	13.0000	<NA>
## 867	female	27.00	1	0	SC/PARIS	2149	13.8583
## 868	male	31.00	0	0	PC	17590	50.4958
## 869	male	NA	0	0	345777	9.5000	<NA>
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## 872	female	47.00	1	1	11751	52.5542	D35
## 873	male	33.00	0	0	695	5.0000	B51
## 874	male	47.00	0	0	345765	9.0000	B53
## 875	female	28.00	1	0	P/PP	3381	24.0000
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## 881	female	25.00	0	1	230433	26.0000	<NA>
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## 3		S					
## 4		S					
## 5		S					
## 6		Q					
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## 16		S					
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## 18		S					
## 19		S					
## 20		C					
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## 22		S					
## 23		Q					

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## 24      S
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## 73      S
## 74      C
## 75      S
## 76      S
## 77      S
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## 78      S
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## 565      S
## 566      S
## 567      S
## 568      S
## 569      C
## 570      S
## 571      S
## 572      S
## 573      S
## 574      Q
## 575      S
## 576      S
## 577      S
## 578      S
## 579      C
## 580      S
## 581      S
## 582      C
## 583      S
## 584      C
## 585      C
## 586      S
## 587      S
## 588      C
## 589      S
## 590      S
## 591      S
## 592      C
## 593      S
## 594      Q
## 595      S
## 596      S
## 597      S
## 598      S
## 599      C
## 600      C
## 601      S
## 602      S
## 603      S
## 604      S
## 605      C
## 606      S
## 607      S
## 608      S
## 609      C
## 610      S
## 611      S
## 612      S
## 613      Q
## 614      Q
## 615      S
## 616      S
## 617      S
```

```
## 618      S
## 619      S
## 620      S
## 621      C
## 622      S
## 623      C
## 624      S
## 625      S
## 626      S
## 627      Q
## 628      S
## 629      S
## 630      Q
## 631      S
## 632      S
## 633      C
## 634      S
## 635      S
## 636      S
## 637      S
## 638      S
## 639      S
## 640      S
## 641      S
## 642      C
## 643      S
## 644      S
## 645      C
## 646      C
## 647      S
## 648      C
## 649      S
## 650      S
## 651      S
## 652      S
## 653      S
## 654      Q
## 655      Q
## 656      S
## 657      S
## 658      Q
## 659      S
## 660      C
## 661      S
## 662      C
## 663      S
## 664      S
## 665      S
## 666      S
## 667      S
## 668      S
## 669      S
## 670      S
## 671      S
```

## 672	S
## 673	S
## 674	S
## 675	S
## 676	S
## 677	S
## 678	S
## 679	S
## 680	C
## 681	Q
## 682	C
## 683	S
## 684	S
## 685	S
## 686	C
## 687	S
## 688	S
## 689	S
## 690	S
## 691	S
## 692	C
## 693	S
## 694	C
## 695	S
## 696	S
## 697	S
## 698	Q
## 699	C
## 700	S
## 701	C
## 702	S
## 703	C
## 704	Q
## 705	S
## 706	S
## 707	S
## 708	S
## 709	S
## 710	C
## 711	C
## 712	S
## 713	S
## 714	S
## 715	S
## 716	S
## 717	C
## 718	S
## 719	Q
## 720	S
## 721	S
## 722	S
## 723	S
## 724	S
## 725	S

## 726	S
## 727	S
## 728	Q
## 729	S
## 730	S
## 731	S
## 732	C
## 733	S
## 734	S
## 735	S
## 736	S
## 737	S
## 738	C
## 739	S
## 740	S
## 741	S
## 742	S
## 743	C
## 744	S
## 745	S
## 746	S
## 747	S
## 748	S
## 749	S
## 750	Q
## 751	S
## 752	S
## 753	S
## 754	S
## 755	S
## 756	S
## 757	S
## 758	S
## 759	S
## 760	S
## 761	S
## 762	S
## 763	C
## 764	S
## 765	S
## 766	S
## 767	C
## 768	Q
## 769	Q
## 770	S
## 771	S
## 772	S
## 773	S
## 774	C
## 775	S
## 776	S
## 777	Q
## 778	S
## 779	Q

```
## 780      S
## 781      C
## 782      S
## 783      S
## 784      S
## 785      S
## 786      S
## 787      S
## 788      Q
## 789      S
## 790      C
## 791      Q
## 792      S
## 793      S
## 794      C
## 795      S
## 796      S
## 797      S
## 798      S
## 799      C
## 800      S
## 801      S
## 802      S
## 803      S
## 804      C
## 805      S
## 806      S
## 807      S
## 808      S
## 809      S
## 810      S
## 811      S
## 812      S
## 813      S
## 814      S
## 815      S
## 816      S
## 817      S
## 818      C
## 819      S
## 820      S
## 821      S
## 822      S
## 823      S
## 824      S
## 825      S
## 826      Q
## 827      S
## 828      C
## 829      Q
## 830      <NA>
## 831      C
## 832      S
## 833      C
```

## 834	S
## 835	S
## 836	C
## 837	S
## 838	S
## 839	S
## 840	C
## 841	S
## 842	S
## 843	C
## 844	C
## 845	S
## 846	S
## 847	S
## 848	C
## 849	S
## 850	C
## 851	S
## 852	S
## 853	C
## 854	S
## 855	S
## 856	S
## 857	S
## 858	S
## 859	C
## 860	C
## 861	S
## 862	S
## 863	S
## 864	S
## 865	S
## 866	S
## 867	C
## 868	S
## 869	S
## 870	S
## 871	S
## 872	S
## 873	S
## 874	S
## 875	C
## 876	C
## 877	S
## 878	S
## 879	S
## 880	C
## 881	S
## 882	S
## 883	S
## 884	S
## 885	S
## 886	Q
## 887	S

```
## 888      S
## 889      S
## 890      C
## 891      Q
```

Remember that you'll need to set a seed at the beginning of the document to reproduce your results.

Question 1

Split the data, stratifying on the outcome variable, `survived`. You should choose the proportions to split the data into. Verify that the training and testing data sets have the appropriate number of observations. Take a look at the training data and note any potential issues, such as missing data.

Why is it a good idea to use stratified sampling for this data?

```
set.seed(596)

titanic_split <- initial_split(titanic_data, prop = 0.8, strata = survived )
titanic_train <- training(titanic_split)
titanic_test <- testing(titanic_split)

titanic_train

##   passenger_id survived pclass
## 1             1      No     3
## 8             8      No     3
## 13            13      No     3
## 15            15      No     3
## 17            17      No     3
## 19            19      No     3
## 21            21      No     2
## 31            31      No     1
## 35            35      No     1
## 36            36      No     1
## 39            39      No     3
## 41            41      No     3
## 43            43      No     3
## 46            46      No     3
## 47            47      No     3
## 49            49      No     3
## 52            52      No     3
## 55            55      No     1
## 58            58      No     3
## 60            60      No     3
## 64            64      No     3
## 68            68      No     3
## 70            70      No     3
## 71            71      No     2
## 73            73      No     2
## 74            74      No     3
## 76            76      No     3
## 77            77      No     3
## 78            78      No     3
```

## 84	84	No	1
## 87	87	No	3
## 88	88	No	3
## 90	90	No	3
## 91	91	No	3
## 93	93	No	1
## 94	94	No	3
## 95	95	No	3
## 96	96	No	3
## 97	97	No	1
## 100	100	No	2
## 101	101	No	3
## 102	102	No	3
## 103	103	No	1
## 105	105	No	3
## 106	106	No	3
## 109	109	No	3
## 111	111	No	1
## 112	112	No	3
## 113	113	No	3
## 114	114	No	3
## 115	115	No	3
## 116	116	No	3
## 118	118	No	2
## 119	119	No	1
## 120	120	No	3
## 121	121	No	2
## 122	122	No	3
## 125	125	No	1
## 127	127	No	3
## 131	131	No	3
## 132	132	No	3
## 133	133	No	3
## 135	135	No	2
## 136	136	No	2
## 138	138	No	1
## 139	139	No	3
## 141	141	No	3
## 144	144	No	3
## 145	145	No	2
## 146	146	No	2
## 149	149	No	2
## 150	150	No	2
## 151	151	No	2
## 153	153	No	3
## 154	154	No	3
## 155	155	No	3
## 158	158	No	3
## 160	160	No	3
## 161	161	No	3
## 163	163	No	3
## 164	164	No	3
## 165	165	No	3
## 168	168	No	3

## 170	170	No	3
## 171	171	No	1
## 172	172	No	3
## 174	174	No	3
## 175	175	No	1
## 176	176	No	3
## 178	178	No	1
## 180	180	No	3
## 181	181	No	3
## 183	183	No	3
## 186	186	No	1
## 189	189	No	3
## 192	192	No	2
## 197	197	No	3
## 200	200	No	2
## 201	201	No	3
## 202	202	No	3
## 203	203	No	3
## 204	204	No	3
## 207	207	No	3
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## 213	213	No	3
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## 215	215	No	3
## 218	218	No	2
## 220	220	No	2
## 222	222	No	2
## 223	223	No	3
## 224	224	No	3
## 226	226	No	3
## 228	228	No	3
## 229	229	No	2
## 230	230	No	3
## 232	232	No	3
## 233	233	No	2
## 235	235	No	2
## 236	236	No	3
## 237	237	No	2
## 239	239	No	2
## 241	241	No	3
## 243	243	No	2
## 244	244	No	3
## 245	245	No	3
## 246	246	No	1
## 250	250	No	2
## 253	253	No	1
## 255	255	No	3
## 261	261	No	3
## 264	264	No	1
## 265	265	No	3
## 266	266	No	2
## 267	267	No	3
## 271	271	No	1
## 274	274	No	1

## 277	277	No	3
## 278	278	No	2
## 279	279	No	3
## 281	281	No	3
## 283	283	No	3
## 285	285	No	1
## 286	286	No	3
## 288	288	No	3
## 293	293	No	2
## 294	294	No	3
## 296	296	No	1
## 297	297	No	3
## 298	298	No	1
## 305	305	No	3
## 313	313	No	2
## 314	314	No	3
## 315	315	No	2
## 318	318	No	2
## 321	321	No	3
## 322	322	No	3
## 325	325	No	3
## 333	333	No	1
## 336	336	No	3
## 337	337	No	1
## 340	340	No	1
## 344	344	No	2
## 345	345	No	2
## 351	351	No	3
## 352	352	No	1
## 353	353	No	3
## 356	356	No	3
## 358	358	No	2
## 363	363	No	3
## 364	364	No	3
## 365	365	No	3
## 366	366	No	3
## 372	372	No	3
## 374	374	No	1
## 375	375	No	3
## 378	378	No	1
## 383	383	No	3
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## 387	387	No	3
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## 399	399	No	2
## 403	403	No	3
## 405	405	No	3
## 406	406	No	2
## 407	407	No	3
## 409	409	No	3
## 410	410	No	3

## 412	412	No	3
## 414	414	No	2
## 416	416	No	3
## 419	419	No	2
## 420	420	No	3
## 421	421	No	3
## 422	422	No	3
## 423	423	No	3
## 424	424	No	3
## 425	425	No	3
## 426	426	No	3
## 429	429	No	3
## 435	435	No	1
## 439	439	No	1
## 440	440	No	2
## 451	451	No	2
## 452	452	No	3
## 453	453	No	1
## 455	455	No	3
## 457	457	No	1
## 460	460	No	3
## 462	462	No	3
## 463	463	No	1
## 464	464	No	2
## 466	466	No	3
## 467	467	No	2
## 468	468	No	1
## 469	469	No	3
## 471	471	No	3
## 472	472	No	3
## 475	475	No	3
## 476	476	No	1
## 477	477	No	2
## 478	478	No	3
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## 481	481	No	3
## 482	482	No	2
## 486	486	No	3
## 489	489	No	3
## 491	491	No	3
## 493	493	No	1
## 494	494	No	1
## 495	495	No	3
## 496	496	No	3
## 498	498	No	3
## 499	499	No	1
## 503	503	No	3
## 504	504	No	3
## 506	506	No	1
## 509	509	No	3
## 512	512	No	3
## 515	515	No	3
## 516	516	No	1
## 518	518	No	3

## 520	520	No	3
## 523	523	No	3
## 525	525	No	3
## 526	526	No	3
## 528	528	No	1
## 529	529	No	3
## 530	530	No	2
## 532	532	No	3
## 533	533	No	3
## 535	535	No	3
## 537	537	No	1
## 539	539	No	3
## 542	542	No	3
## 543	543	No	3
## 545	545	No	1
## 546	546	No	1
## 549	549	No	3
## 552	552	No	2
## 553	553	No	3
## 558	558	No	1
## 561	561	No	3
## 563	563	No	2
## 564	564	No	3
## 565	565	No	3
## 566	566	No	3
## 567	567	No	3
## 569	569	No	3
## 575	575	No	3
## 579	579	No	3
## 583	583	No	2
## 584	584	No	1
## 587	587	No	2
## 590	590	No	3
## 591	591	No	3
## 594	594	No	3
## 595	595	No	2
## 596	596	No	3
## 599	599	No	3
## 602	602	No	3
## 603	603	No	1
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## 607	607	No	3
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## 612	612	No	3
## 615	615	No	3
## 618	618	No	3
## 620	620	No	2
## 621	621	No	3
## 625	625	No	3
## 626	626	No	1
## 627	627	No	2
## 629	629	No	3
## 630	630	No	3
## 632	632	No	3

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## 638	638	No	2
## 639	639	No	3
## 640	640	No	3
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## 653	653	No	3
## 655	655	No	3
## 656	656	No	2
## 657	657	No	3
## 658	658	No	3
## 659	659	No	2
## 660	660	No	1
## 662	662	No	3
## 664	664	No	3
## 666	666	No	2
## 667	667	No	2
## 668	668	No	3
## 669	669	No	3
## 673	673	No	2
## 675	675	No	2
## 676	676	No	3
## 677	677	No	3
## 681	681	No	3
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## 684	684	No	3
## 685	685	No	2
## 686	686	No	2
## 687	687	No	3
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## 689	689	No	3
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## 695	695	No	1
## 697	697	No	3
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## 704	704	No	3
## 705	705	No	3
## 712	712	No	1
## 714	714	No	3
## 715	715	No	2
## 716	716	No	3
## 720	720	No	3
## 723	723	No	2
## 724	724	No	2
## 726	726	No	3
## 730	730	No	3
## 732	732	No	3
## 733	733	No	2
## 734	734	No	2

## 735	735	No	2
## 736	736	No	3
## 739	739	No	3
## 740	740	No	3
## 742	742	No	1
## 744	744	No	3
## 746	746	No	1
## 747	747	No	3
## 749	749	No	1
## 750	750	No	3
## 753	753	No	3
## 754	754	No	3
## 758	758	No	2
## 759	759	No	3
## 761	761	No	3
## 762	762	No	3
## 765	765	No	3
## 767	767	No	1
## 768	768	No	3
## 769	769	No	3
## 770	770	No	3
## 771	771	No	3
## 772	772	No	3
## 773	773	No	2
## 774	774	No	3
## 777	777	No	3
## 779	779	No	3
## 783	783	No	1
## 785	785	No	3
## 786	786	No	3
## 788	788	No	3
## 790	790	No	1
## 791	791	No	3
## 792	792	No	2
## 793	793	No	3
## 794	794	No	1
## 796	796	No	2
## 800	800	No	3
## 801	801	No	2
## 807	807	No	1
## 808	808	No	3
## 809	809	No	2
## 811	811	No	3
## 812	812	No	3
## 814	814	No	3
## 815	815	No	3
## 816	816	No	1
## 817	817	No	3
## 818	818	No	2
## 819	819	No	3
## 823	823	No	1
## 825	825	No	3
## 827	827	No	3
## 833	833	No	3

## 834	834	No	3
## 835	835	No	3
## 837	837	No	3
## 838	838	No	3
## 841	841	No	3
## 844	844	No	3
## 845	845	No	3
## 846	846	No	3
## 847	847	No	3
## 848	848	No	3
## 849	849	No	2
## 851	851	No	3
## 852	852	No	3
## 855	855	No	2
## 860	860	No	3
## 862	862	No	2
## 864	864	No	3
## 865	865	No	2
## 868	868	No	1
## 869	869	No	3
## 873	873	No	1
## 874	874	No	3
## 877	877	No	3
## 878	878	No	3
## 882	882	No	3
## 883	883	No	3
## 884	884	No	2
## 885	885	No	3
## 886	886	No	3
## 887	887	No	2
## 889	889	No	3
## 891	891	No	3
## 2	2	Yes	1
## 3	3	Yes	3
## 9	9	Yes	3
## 11	11	Yes	3
## 16	16	Yes	2
## 20	20	Yes	3
## 22	22	Yes	2
## 23	23	Yes	3
## 24	24	Yes	1
## 26	26	Yes	3
## 29	29	Yes	3
## 32	32	Yes	1
## 33	33	Yes	3
## 37	37	Yes	3
## 45	45	Yes	3
## 56	56	Yes	1
## 57	57	Yes	2
## 59	59	Yes	2
## 62	62	Yes	1
## 66	66	Yes	3
## 67	67	Yes	2
## 69	69	Yes	3

## 75	75	Yes	3
## 79	79	Yes	2
## 80	80	Yes	3
## 83	83	Yes	3
## 85	85	Yes	2
## 86	86	Yes	3
## 89	89	Yes	1
## 98	98	Yes	1
## 99	99	Yes	2
## 107	107	Yes	3
## 108	108	Yes	3
## 110	110	Yes	3
## 124	124	Yes	2
## 126	126	Yes	3
## 128	128	Yes	3
## 129	129	Yes	3
## 137	137	Yes	1
## 142	142	Yes	3
## 143	143	Yes	3
## 147	147	Yes	3
## 162	162	Yes	2
## 167	167	Yes	1
## 173	173	Yes	3
## 184	184	Yes	2
## 188	188	Yes	1
## 191	191	Yes	2
## 193	193	Yes	3
## 194	194	Yes	2
## 195	195	Yes	1
## 205	205	Yes	3
## 208	208	Yes	3
## 209	209	Yes	3
## 210	210	Yes	1
## 212	212	Yes	2
## 216	216	Yes	1
## 217	217	Yes	3
## 219	219	Yes	1
## 221	221	Yes	3
## 225	225	Yes	1
## 227	227	Yes	2
## 231	231	Yes	1
## 234	234	Yes	3
## 238	238	Yes	2
## 242	242	Yes	3
## 248	248	Yes	2
## 249	249	Yes	1
## 257	257	Yes	1
## 259	259	Yes	1
## 260	260	Yes	2
## 262	262	Yes	3
## 268	268	Yes	3
## 270	270	Yes	1
## 273	273	Yes	2
## 276	276	Yes	1

## 280	280	Yes	3
## 287	287	Yes	3
## 289	289	Yes	2
## 291	291	Yes	1
## 292	292	Yes	1
## 299	299	Yes	1
## 300	300	Yes	1
## 301	301	Yes	3
## 302	302	Yes	3
## 304	304	Yes	2
## 306	306	Yes	1
## 307	307	Yes	1
## 312	312	Yes	1
## 316	316	Yes	3
## 319	319	Yes	1
## 323	323	Yes	2
## 324	324	Yes	2
## 326	326	Yes	1
## 328	328	Yes	2
## 329	329	Yes	3
## 330	330	Yes	1
## 335	335	Yes	1
## 338	338	Yes	1
## 339	339	Yes	3
## 341	341	Yes	2
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## 347	347	Yes	2
## 348	348	Yes	3
## 349	349	Yes	3
## 359	359	Yes	3
## 360	360	Yes	3
## 367	367	Yes	1
## 369	369	Yes	3
## 370	370	Yes	1
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## 376	376	Yes	1
## 377	377	Yes	3
## 381	381	Yes	1
## 382	382	Yes	3
## 384	384	Yes	1
## 388	388	Yes	2
## 390	390	Yes	2
## 392	392	Yes	3
## 394	394	Yes	1
## 395	395	Yes	3
## 400	400	Yes	2
## 401	401	Yes	3
## 408	408	Yes	2
## 413	413	Yes	1
## 415	415	Yes	3
## 417	417	Yes	2
## 418	418	Yes	2
## 427	427	Yes	2
## 430	430	Yes	3

## 431	431	Yes	1
## 432	432	Yes	3
## 433	433	Yes	2
## 436	436	Yes	1
## 438	438	Yes	2
## 441	441	Yes	2
## 444	444	Yes	2
## 445	445	Yes	3
## 446	446	Yes	1
## 448	448	Yes	1
## 449	449	Yes	3
## 450	450	Yes	1
## 454	454	Yes	1
## 456	456	Yes	3
## 461	461	Yes	1
## 470	470	Yes	3
## 473	473	Yes	2
## 474	474	Yes	2
## 484	484	Yes	3
## 485	485	Yes	1
## 497	497	Yes	1
## 505	505	Yes	1
## 507	507	Yes	2
## 510	510	Yes	3
## 511	511	Yes	3
## 513	513	Yes	1
## 514	514	Yes	1
## 517	517	Yes	2
## 519	519	Yes	2
## 524	524	Yes	1
## 527	527	Yes	2
## 531	531	Yes	2
## 534	534	Yes	3
## 538	538	Yes	1
## 540	540	Yes	1
## 544	544	Yes	2
## 548	548	Yes	2
## 550	550	Yes	2
## 551	551	Yes	1
## 554	554	Yes	3
## 555	555	Yes	3
## 557	557	Yes	1
## 559	559	Yes	1
## 560	560	Yes	3
## 571	571	Yes	2
## 572	572	Yes	1
## 574	574	Yes	3
## 577	577	Yes	2
## 578	578	Yes	1
## 580	580	Yes	3
## 581	581	Yes	2
## 582	582	Yes	1
## 586	586	Yes	1
## 588	588	Yes	1

## 592	592	Yes	1
## 597	597	Yes	2
## 601	601	Yes	2
## 605	605	Yes	1
## 609	609	Yes	2
## 610	610	Yes	1
## 613	613	Yes	3
## 616	616	Yes	2
## 619	619	Yes	2
## 622	622	Yes	1
## 623	623	Yes	3
## 628	628	Yes	1
## 631	631	Yes	1
## 633	633	Yes	1
## 642	642	Yes	1
## 644	644	Yes	3
## 646	646	Yes	1
## 648	648	Yes	1
## 650	650	Yes	3
## 652	652	Yes	2
## 654	654	Yes	3
## 661	661	Yes	1
## 665	665	Yes	3
## 671	671	Yes	2
## 674	674	Yes	2
## 678	678	Yes	3
## 680	680	Yes	1
## 690	690	Yes	1
## 691	691	Yes	1
## 692	692	Yes	3
## 693	693	Yes	3
## 698	698	Yes	3
## 702	702	Yes	1
## 707	707	Yes	2
## 708	708	Yes	1
## 711	711	Yes	1
## 713	713	Yes	1
## 721	721	Yes	2
## 725	725	Yes	1
## 727	727	Yes	2
## 728	728	Yes	3
## 731	731	Yes	1
## 738	738	Yes	1
## 743	743	Yes	1
## 745	745	Yes	3
## 748	748	Yes	2
## 751	751	Yes	2
## 752	752	Yes	3
## 755	755	Yes	2
## 756	756	Yes	2
## 760	760	Yes	1
## 763	763	Yes	3
## 764	764	Yes	1
## 775	775	Yes	2

## 778	778	Yes	3
## 780	780	Yes	1
## 782	782	Yes	1
## 789	789	Yes	3
## 797	797	Yes	1
## 798	798	Yes	3
## 802	802	Yes	2
## 803	803	Yes	1
## 804	804	Yes	3
## 810	810	Yes	1
## 821	821	Yes	1
## 822	822	Yes	3
## 824	824	Yes	3
## 828	828	Yes	2
## 829	829	Yes	3
## 832	832	Yes	2
## 836	836	Yes	1
## 839	839	Yes	3
## 840	840	Yes	1
## 850	850	Yes	1
## 854	854	Yes	1
## 856	856	Yes	3
## 857	857	Yes	1
## 858	858	Yes	1
## 859	859	Yes	3
## 863	863	Yes	1
## 866	866	Yes	2
## 867	867	Yes	2
## 870	870	Yes	3
## 872	872	Yes	1
## 875	875	Yes	2
## 876	876	Yes	3
## 880	880	Yes	1
## 881	881	Yes	2
## 888	888	Yes	1
##			
## 1		name	sex
## 8		Braund, Mr. Owen Harris	male
## 13		Palsson, Master. Gosta Leonard	male
## 15		Saundercock, Mr. William Henry	male
## 17		Vestrom, Miss. Hulda Amanda Adolfina	female
## 19		Rice, Master. Eugene	male
## 21		Vander Planke, Mrs. Julius (Emelia Maria Vandemoortele)	female
## 31		Fynney, Mr. Joseph J	male
## 35		Uruchurtu, Don. Manuel E	male
## 36		Meyer, Mr. Edgar Joseph	male
## 39		Holverson, Mr. Alexander Oskar	male
## 41		Vander Planke, Miss. Augusta Maria	female
## 43		Ahlin, Mrs. Johan (Johanna Persdotter Larsson)	female
## 46		Kraeff, Mr. Theodor	male
## 47		Rogers, Mr. William John	male
## 49		Lennon, Mr. Denis	male
## 52		Samaan, Mr. Youssef	male
## 55		Nosworthy, Mr. Richard Cater	male
		Ostby, Mr. Engelhart Cornelius	male

## 58		Novel, Mr. Mansouer	male
## 60		Goodwin, Master. William Frederick	male
## 64		Skoog, Master. Harald	male
## 68		Crease, Mr. Ernest James	male
## 70		Kink, Mr. Vincenz	male
## 71		Jenkin, Mr. Stephen Curnow	male
## 73		Hood, Mr. Ambrose Jr	male
## 74		Chronopoulos, Mr. Apostolos	male
## 76		Moen, Mr. Sigurd Hansen	male
## 77		Staneff, Mr. Ivan	male
## 78		Moutal, Mr. Rahamin Haim	male
## 84		Carrau, Mr. Francisco M	male
## 87		Ford, Mr. William Neal	male
## 88		Slocovski, Mr. Selman Francis	male
## 90		Celotti, Mr. Francesco	male
## 91		Christmann, Mr. Emil	male
## 93		Chaffee, Mr. Herbert Fuller	male
## 94		Dean, Mr. Bertram Frank	male
## 95		Coxon, Mr. Daniel	male
## 96		Shorney, Mr. Charles Joseph	male
## 97		Goldschmidt, Mr. George B	male
## 100		Kantor, Mr. Sinai	male
## 101		Petranec, Miss. Matilda	female
## 102		Petroff, Mr. Pastcho ("Pentcho")	male
## 103		White, Mr. Richard Frasar	male
## 105		Gustafsson, Mr. Anders Vilhelm	male
## 106		Mionoff, Mr. Stoytcho	male
## 109		Rekic, Mr. Tido	male
## 111		Porter, Mr. Walter Chamberlain	male
## 112		Zabour, Miss. Hileni	female
## 113		Barton, Mr. David John	male
## 114		Jussila, Miss. Katriina	female
## 115		Attalah, Miss. Malake	female
## 116		Pekoniemi, Mr. Edvard	male
## 118		Turpin, Mr. William John Robert	male
## 119		Baxter, Mr. Quigg Edmond	male
## 120		Andersson, Miss. Ellis Anna Maria	female
## 121		Hickman, Mr. Stanley George	male
## 122		Moore, Mr. Leonard Charles	male
## 125		White, Mr. Percival Wayland	male
## 127		McMahon, Mr. Martin	male
## 131		Drazenoic, Mr. Jozef	male
## 132		Coelho, Mr. Domingos Fernandeo	male
## 133		Robins, Mrs. Alexander A (Grace Charity Laury)	female
## 135		Sobey, Mr. Samuel James Hayden	male
## 136		Richard, Mr. Emile	male
## 138		Futrelle, Mr. Jacques Heath	male
## 139		Osen, Mr. Olaf Elon	male
## 141		Boulos, Mrs. Joseph (Sultana)	female
## 144		Burke, Mr. Jeremiah	male
## 145		Andrew, Mr. Edgardo Samuel	male
## 146		Nicholls, Mr. Joseph Charles	male
## 149		Navratil, Mr. Michel ("Louis M Hoffman")	male
## 150		Byles, Rev. Thomas Roussel Davids	male

## 151	Bateman, Rev. Robert James	male
## 153	Meo, Mr. Alfonzo	male
## 154	van Billiard, Mr. Austin Blyler	male
## 155	Olsen, Mr. Ole Martin	male
## 158	Corn, Mr. Harry	male
## 160	Sage, Master. Thomas Henry	male
## 161	Cribb, Mr. John Hatfield	male
## 163	Bengtsson, Mr. John Viktor	male
## 164	Calic, Mr. Jovo	male
## 165	Panula, Master. Eino Viljami	male
## 168	Skoog, Mrs. William (Anna Bernhardina Karlsson)	female
## 170	Ling, Mr. Lee	male
## 171	Van der hoef, Mr. Wyckoff	male
## 172	Rice, Master. Arthur	male
## 174	Sivola, Mr. Antti Wilhelm	male
## 175	Smith, Mr. James Clinch	male
## 176	Klasen, Mr. Klas Albin	male
## 178	Isham, Miss. Ann Elizabeth	female
## 180	Leonard, Mr. Lionel	male
## 181	Sage, Miss. Constance Gladys	female
## 183	Asplund, Master. Clarence Gustaf Hugo	male
## 186	Rood, Mr. Hugh Roscoe	male
## 189	Bourke, Mr. John	male
## 192	Carbines, Mr. William	male
## 197	Mernagh, Mr. Robert	male
## 200	Yrois, Miss. Henriette ("Mrs Harbeck")	female
## 201	Vande Walle, Mr. Nestor Cyriel	male
## 202	Sage, Mr. Frederick	male
## 203	Johanson, Mr. Jakob Alfred	male
## 204	Youseff, Mr. Gerious	male
## 207	Backstrom, Mr. Karl Alfred	male
## 211	Ali, Mr. Ahmed	male
## 213	Perkin, Mr. John Henry	male
## 214	Givard, Mr. Hans Kristensen	male
## 215	Kiernan, Mr. Philip	male
## 218	Jacobsohn, Mr. Sidney Samuel	male
## 220	Harris, Mr. Walter	male
## 222	Bracken, Mr. James H	male
## 223	Green, Mr. George Henry	male
## 224	Nenkoff, Mr. Christo	male
## 226	Berglund, Mr. Karl Ivar Sven	male
## 228	Lovell, Mr. John Hall ("Henry")	male
## 229	Fahlstrom, Mr. Arne Jonas	male
## 230	Lefebre, Miss. Mathilde	female
## 232	Larsson, Mr. Bengt Edvin	male
## 233	Sjostedt, Mr. Ernst Adolf	male
## 235	Leyson, Mr. Robert William Norman	male
## 236	Harknett, Miss. Alice Phoebe	female
## 237	Hold, Mr. Stephen	male
## 239	Pengelly, Mr. Frederick William	male
## 241	Zabour, Miss. Thamine	female
## 243	Coleridge, Mr. Reginald Charles	male
## 244	Maenpaa, Mr. Matti Alexanteri	male
## 245	Attalah, Mr. Sleiman	male

## 246	Minahan, Dr. William Edward	male
## 250	Carter, Rev. Ernest Courtenay	male
## 253	Stead, Mr. William Thomas	male
## 255	Rosblom, Mrs. Viktor (Helena Wilhelmina)	female
## 261	Smith, Mr. Thomas	male
## 264	Harrison, Mr. William	male
## 265	Henry, Miss. Delia	female
## 266	Reeves, Mr. David	male
## 267	Panula, Mr. Ernesti Arvid	male
## 271	Cairns, Mr. Alexander	male
## 274	Natsch, Mr. Charles H	male
## 277	Lindblom, Miss. Augusta Charlotta	female
## 278	Parkes, Mr. Francis "Frank"	male
## 279	Rice, Master. Eric	male
## 281	Duane, Mr. Frank	male
## 283	de Pelsmaeker, Mr. Alfons	male
## 285	Smith, Mr. Richard William	male
## 286	Stankovic, Mr. Ivan	male
## 288	Naidenoff, Mr. Penko	male
## 293	Levy, Mr. Rene Jacques	male
## 294	Haas, Miss. Aloisia	female
## 296	Lewy, Mr. Ervin G	male
## 297	Hanna, Mr. Mansour	male
## 298	Allison, Miss. Helen Loraine	female
## 305	Williams, Mr. Howard Hugh "Harry"	male
## 313	Lahtinen, Mrs. William (Anna Sylfven)	female
## 314	Hendekovic, Mr. Ignjac	male
## 315	Hart, Mr. Benjamin	male
## 318	Moraweck, Dr. Ernest	male
## 321	Dennis, Mr. Samuel	male
## 322	Danoff, Mr. Yoto	male
## 325	Sage, Mr. George John Jr	male
## 333	Graham, Mr. George Edward	male
## 336	Denkoff, Mr. Mitto	male
## 337	Pears, Mr. Thomas Clinton	male
## 340	Blackwell, Mr. Stephen Weart	male
## 344	Sedgwick, Mr. Charles Frederick Waddington	male
## 345	Fox, Mr. Stanley Hubert	male
## 351	Odahl, Mr. Nils Martin	male
## 352	Williams-Lambert, Mr. Fletcher Fellows	male
## 353	Elias, Mr. Tannous	male
## 356	Vanden Steen, Mr. Leo Peter	male
## 358	Funk, Miss. Annie Clemmer	female
## 363	Barbara, Mrs. (Catherine David)	female
## 364	Asim, Mr. Adola	male
## 365	O'Brien, Mr. Thomas	male
## 366	Adahl, Mr. Mauritz Nils Martin	male
## 372	Wiklund, Mr. Jakob Alfred	male
## 374	Ringhini, Mr. Sante	male
## 375	Palsson, Miss. Stina Viola	female
## 378	Widener, Mr. Harry Elkins	male
## 383	Tikkanen, Mr. Juho	male
## 385	Plotcharsky, Mr. Vasil	male
## 386	Davies, Mr. Charles Henry	male

## 387	Goodwin, Master. Sidney Leonard	male
## 389	Sadlier, Mr. Matthew	male
## 393	Gustafsson, Mr. Johan Birger	male
## 397	Olsson, Miss. Elina	female
## 399	Pain, Dr. Alfred	male
## 403	Jussila, Miss. Mari Aina	female
## 405	Oreskovic, Miss. Marija	female
## 406	Gale, Mr. Shadrach	male
## 407	Widegren, Mr. Carl/Charles Peter	male
## 409	Birkeland, Mr. Hans Martin Monsen	male
## 410	Lefebre, Miss. Ida	female
## 412	Hart, Mr. Henry	male
## 414	Cunningham, Mr. Alfred Fleming	male
## 416	Meek, Mrs. Thomas (Annie Louise Rowley)	female
## 419	Matthews, Mr. William John	male
## 420	Van Impe, Miss. Catharina	female
## 421	Gheorgheff, Mr. Stanio	male
## 422	Charters, Mr. David	male
## 423	Zimmerman, Mr. Leo	male
## 424	Danbom, Mrs. Ernst Gilbert (Anna Sigrid Maria Brogren)	female
## 425	Rosblom, Mr. Viktor Richard	male
## 426	Wiseman, Mr. Phillippe	male
## 429	Flynn, Mr. James	male
## 435	Silvey, Mr. William Baird	male
## 439	Fortune, Mr. Mark	male
## 440	Kvillner, Mr. Johan Henrik Johannesson	male
## 451	West, Mr. Edwy Arthur	male
## 452	Hagland, Mr. Ingvald Olai Olsen	male
## 453	Foreman, Mr. Benjamin Laventall	male
## 455	Peduzzi, Mr. Joseph	male
## 457	Millet, Mr. Francis Davis	male
## 460	O'Connor, Mr. Maurice	male
## 462	Morley, Mr. William	male
## 463	Gee, Mr. Arthur H	male
## 464	Milling, Mr. Jacob Christian	male
## 466	Goncalves, Mr. Manuel Estanslas	male
## 467	Campbell, Mr. William	male
## 468	Smart, Mr. John Montgomery	male
## 469	Scanlan, Mr. James	male
## 471	Keefe, Mr. Arthur	male
## 472	Cacic, Mr. Luka	male
## 475	Strandberg, Miss. Ida Sofia	female
## 476	Clifford, Mr. George Quincy	male
## 477	Renouf, Mr. Peter Henry	male
## 478	Braund, Mr. Lewis Richard	male
## 479	Karlsson, Mr. Nils August	male
## 481	Goodwin, Master. Harold Victor	male
## 482	Frost, Mr. Anthony Wood "Archie"	male
## 486	Lefebre, Miss. Jeannie	female
## 489	Somerton, Mr. Francis William	male
## 491	Hagland, Mr. Konrad Mathias Reiersen	male
## 493	Molson, Mr. Harry Markland	male
## 494	Artagaveytia, Mr. Ramon	male
## 495	Stanley, Mr. Edward Roland	male

## 496	Yousseff, Mr. Gerious	male
## 498	Shellard, Mr. Frederick William	male
## 499	Allison, Mrs. Hudson J C (Bessie Waldo Daniels)	female
## 503	O'Sullivan, Miss. Bridget Mary	female
## 504	Laitinen, Miss. Kristina Sofia	female
## 506	Penasco y Castellana, Mr. Victor de Satode	male
## 509	Olsen, Mr. Henry Margido	male
## 512	Webber, Mr. James	male
## 515	Coleff, Mr. Satio	male
## 516	Walker, Mr. William Anderson	male
## 518	Ryan, Mr. Patrick	male
## 520	Pavlovic, Mr. Stefo	male
## 523	Lahoud, Mr. Sarkis	male
## 525	Kassem, Mr. Fared	male
## 526	Farrell, Mr. James	male
## 528	Farthing, Mr. John	male
## 529	Salonen, Mr. Johan Werner	male
## 530	Hocking, Mr. Richard George	male
## 532	Toufik, Mr. Nakli	male
## 533	Elias, Mr. Joseph Jr	male
## 535	Cacic, Miss. Marija	female
## 537	Butt, Major. Archibald Willingham	male
## 539	Risien, Mr. Samuel Beard	male
## 542	Andersson, Miss. Ingeborg Constanzia	female
## 543	Andersson, Miss. Sigrid Elisabeth	female
## 545	Douglas, Mr. Walter Donald	male
## 546	Nicholson, Mr. Arthur Ernest	male
## 549	Goldsmith, Mr. Frank John	male
## 552	Sharp, Mr. Percival James R	male
## 553	O'Brien, Mr. Timothy	male
## 558	Robbins, Mr. Victor	male
## 561	Morrow, Mr. Thomas Rowan	male
## 563	Norman, Mr. Robert Douglas	male
## 564	Simmons, Mr. John	male
## 565	Meanwell, Miss. (Marion Ogden)	female
## 566	Davies, Mr. Alfred J	male
## 567	Stoytcheff, Mr. Ilia	male
## 569	Doharr, Mr. Tannous	male
## 575	Rush, Mr. Alfred George John	male
## 579	Caram, Mrs. Joseph (Maria Elias)	female
## 583	Downton, Mr. William James	male
## 584	Ross, Mr. John Hugo	male
## 587	Jarvis, Mr. John Denzil	male
## 590	Murdlin, Mr. Joseph	male
## 591	Rintamaki, Mr. Matti	male
## 594	Bourke, Miss. Mary	female
## 595	Chapman, Mr. John Henry	male
## 596	Van Impe, Mr. Jean Baptiste	male
## 599	Boulos, Mr. Hanna	male
## 602	Slabenoff, Mr. Petco	male
## 603	Harrington, Mr. Charles H	male
## 606	Lindell, Mr. Edvard Bengtsson	male
## 607	Karaic, Mr. Milan	male
## 611	Andersson, Mrs. Anders Johan (Alfrida Konstantia Brogren)	female

## 612	Jardin, Mr. Jose Neto	male
## 615	Brocklebank, Mr. William Alfred	male
## 618	Lobb, Mrs. William Arthur (Cordelia K Stanlick)	female
## 620	Gavey, Mr. Lawrence	male
## 621	Yasbeck, Mr. Antoni	male
## 625	Bowen, Mr. David John "Dai"	male
## 626	Sutton, Mr. Frederick	male
## 627	Kirkland, Rev. Charles Leonard	male
## 629	Bostandyeff, Mr. Guentcho	male
## 630	O'Connell, Mr. Patrick D	male
## 632	Lundahl, Mr. Johan Svensson	male
## 635	Skoog, Miss. Mabel	female
## 638	Collyer, Mr. Harvey	male
## 639	Panula, Mrs. Juha (Maria Emilia Ojala)	female
## 640	Thorneycroft, Mr. Percival	male
## 641	Jensen, Mr. Hans Peder	male
## 643	Skoog, Miss. Margit Elizabeth	female
## 647	Cor, Mr. Liudevit	male
## 649	Willey, Mr. Edward	male
## 651	Mitkoff, Mr. Mito	male
## 653	Kalvik, Mr. Johannes Halvorsen	male
## 655	Hegarty, Miss. Hanora "Nora"	female
## 656	Hickman, Mr. Leonard Mark	male
## 657	Radeff, Mr. Alexander	male
## 658	Bourke, Mrs. John (Catherine)	female
## 659	Eitemiller, Mr. George Floyd	male
## 660	Newell, Mr. Arthur Webster	male
## 662	Badt, Mr. Mohamed	male
## 664	Coleff, Mr. Peju	male
## 666	Hickman, Mr. Lewis	male
## 667	Butler, Mr. Reginald Fenton	male
## 668	Rommetvedt, Mr. Knud Paust	male
## 669	Cook, Mr. Jacob	male
## 673	Mitchell, Mr. Henry Michael	male
## 675	Watson, Mr. Ennis Hastings	male
## 676	Edvardsson, Mr. Gustaf Hjalmar	male
## 677	Sawyer, Mr. Frederick Charles	male
## 681	Peters, Miss. Katie	female
## 683	Olsvigen, Mr. Thor Anderson	male
## 684	Goodwin, Mr. Charles Edward	male
## 685	Brown, Mr. Thomas William Solomon	male
## 686	Laroche, Mr. Joseph Philippe Lemercier	male
## 687	Panula, Mr. Jaako Arnold	male
## 688	Dakic, Mr. Branko	male
## 689	Fischer, Mr. Eberhard Thelander	male
## 694	Saad, Mr. Khalil	male
## 695	Weir, Col. John	male
## 697	Kelly, Mr. James	male
## 699	Thayer, Mr. John Borland	male
## 700	Humblen, Mr. Adolf Mathias Nicolai Olsen	male
## 703	Barbara, Miss. Saiide	female
## 704	Gallagher, Mr. Martin	male
## 705	Hansen, Mr. Henrik Juul	male
## 712	Klaber, Mr. Herman	male

## 714	Larsson, Mr. August Viktor	male
## 715	Greenberg, Mr. Samuel	male
## 716	Soholt, Mr. Peter Andreas Lauritz Andersen	male
## 720	Johnson, Mr. Malkolm Joackim	male
## 723	Gillespie, Mr. William Henry	male
## 724	Hodges, Mr. Henry Price	male
## 726	Oreskovic, Mr. Luka	male
## 730	Ilmakangas, Miss. Pieta Sofia	female
## 732	Hassan, Mr. Houssein G N	male
## 733	Knight, Mr. Robert J	male
## 734	Berriman, Mr. William John	male
## 735	Troupiansky, Mr. Moses Aaron	male
## 736	Williams, Mr. Leslie	male
## 739	Ivanoff, Mr. Kanio	male
## 740	Nankoff, Mr. Minko	male
## 742	Cavendish, Mr. Tyrell William	male
## 744	McNamee, Mr. Neal	male
## 746	Crosby, Capt. Edward Gifford	male
## 747	Abbott, Mr. Rossmore Edward	male
## 749	Marvin, Mr. Daniel Warner	male
## 750	Connaghton, Mr. Michael	male
## 753	Vande Velde, Mr. Johannes Joseph	male
## 754	Jonkoff, Mr. Lilio	male
## 758	Bailey, Mr. Percy Andrew	male
## 759	Theobald, Mr. Thomas Leonard	male
## 761	Garfirth, Mr. John	male
## 762	Nirva, Mr. Iisakki Antino Aijo	male
## 765	Eklund, Mr. Hans Linus	male
## 767	Brewe, Dr. Arthur Jackson	male
## 768	Mangan, Miss. Mary	female
## 769	Moran, Mr. Daniel J	male
## 770	Gronnestad, Mr. Daniel Danielsen	male
## 771	Lievens, Mr. Rene Aime	male
## 772	Jensen, Mr. Niels Peder	male
## 773	Mack, Mrs. (Mary)	female
## 774	Elias, Mr. Dibo	male
## 777	Tobin, Mr. Roger	male
## 779	Kilgannon, Mr. Thomas J	male
## 783	Long, Mr. Milton Clyde	male
## 785	Ali, Mr. William	male
## 786	Harmer, Mr. Abraham (David Lishin)	male
## 788	Rice, Master. George Hugh	male
## 790	Guggenheim, Mr. Benjamin	male
## 791	Keane, Mr. Andrew "Andy"	male
## 792	Gaskell, Mr. Alfred	male
## 793	Sage, Miss. Stella Anna	female
## 794	Hoyt, Mr. William Fisher	male
## 796	Otter, Mr. Richard	male
## 800	Van Impe, Mrs. Jean Baptiste (Rosalie Paula Govaert)	female
## 801	Ponesell, Mr. Martin	male
## 807	Andrews, Mr. Thomas Jr	male
## 808	Pettersson, Miss. Ellen Natalia	female
## 809	Meyer, Mr. August	male
## 811	Alexander, Mr. William	male

## 812	Lester, Mr. James	male
## 814	Andersson, Miss. Ebba Iris Alfrida	female
## 815	Tomlin, Mr. Ernest Portage	male
## 816	Fry, Mr. Richard	male
## 817	Heininen, Miss. Wendla Maria	female
## 818	Mallet, Mr. Albert	male
## 819	Holm, Mr. John Fredrik Alexander	male
## 823	Reuchlin, Jonkheer. John George	male
## 825	Panula, Master. Urho Abraham	male
## 827	Lam, Mr. Len	male
## 833	Saad, Mr. Amin	male
## 834	Augustsson, Mr. Albert	male
## 835	Allum, Mr. Owen George	male
## 837	Pasic, Mr. Jakob	male
## 838	Sirota, Mr. Maurice	male
## 841	Alhomaki, Mr. Ilmari Rudolf	male
## 844	Lemberopolous, Mr. Peter L	male
## 845	Culumovic, Mr. Jeso	male
## 846	Abbing, Mr. Anthony	male
## 847	Sage, Mr. Douglas Bullen	male
## 848	Markoff, Mr. Marin	male
## 849	Harper, Rev. John	male
## 851	Andersson, Master. Sigvard Harald Elias	male
## 852	Svensson, Mr. Johan	male
## 855	Carter, Mrs. Ernest Courtenay (Lilian Hughes)	female
## 860	Razi, Mr. Raihed	male
## 862	Giles, Mr. Frederick Edward	male
## 864	Sage, Miss. Dorothy Edith "Dolly"	female
## 865	Gill, Mr. John William	male
## 868	Roebling, Mr. Washington Augustus II	male
## 869	van Melkebeke, Mr. Philemon	male
## 873	Carlsson, Mr. Frans Olof	male
## 874	Vander Cruyssen, Mr. Victor	male
## 877	Gustafsson, Mr. Alfred Ossian	male
## 878	Petroff, Mr. Nedelio	male
## 882	Markun, Mr. Johann	male
## 883	Dahlberg, Miss. Gerda Ulrika	female
## 884	Banfield, Mr. Frederick James	male
## 885	Sutehall, Mr. Henry Jr	male
## 886	Rice, Mrs. William (Margaret Norton)	female
## 887	Montvila, Rev. Juozas	male
## 889	Johnston, Miss. Catherine Helen "Carrie"	female
## 891	Dooley, Mr. Patrick	male
## 2	Cumings, Mrs. John Bradley (Florence Briggs Thayer)	female
## 3	Heikkinen, Miss. Laina	female
## 9	Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)	female
## 11	Sandstrom, Miss. Marguerite Rut	female
## 16	Hewlett, Mrs. (Mary D Kingcome)	female
## 20	Masselmani, Mrs. Fatima	female
## 22	Beesley, Mr. Lawrence	male
## 23	McGowan, Miss. Anna "Annie"	female
## 24	Sloper, Mr. William Thompson	male
## 26	Asplund, Mrs. Carl Oscar (Selma Augusta Emilia Johansson)	female
## 29	O'Dwyer, Miss. Ellen "Nellie"	female

## 32	Spencer, Mrs. William Augustus (Marie Eugenie) female
## 33	Glynn, Miss. Mary Agatha female
## 37	Mamee, Mr. Hanna male
## 45	Devaney, Miss. Margaret Delia female
## 56	Woolner, Mr. Hugh male
## 57	Rugg, Miss. Emily female
## 59	West, Miss. Constance Mirium female
## 62	Icard, Miss. Amelie female
## 66	Moubarek, Master. Gerios male
## 67	Nye, Mrs. (Elizabeth Ramell) female
## 69	Andersson, Miss. Erna Alexandra female
## 75	Bing, Mr. Lee male
## 79	Caldwell, Master. Alden Gates male
## 80	Dowdell, Miss. Elizabeth female
## 83	McDermott, Miss. Brigdet Delia female
## 85	Ilett, Miss. Bertha female
## 86	Backstrom, Mrs. Karl Alfred (Maria Mathilda Gustafsson) female
## 89	Fortune, Miss. Mabel Helen female
## 98	Greenfield, Mr. William Bertram male
## 99	Doling, Mrs. John T (Ada Julia Bone) female
## 107	Salkjelsvik, Miss. Anna Kristine female
## 108	Moss, Mr. Albert Johan male
## 110	Moran, Miss. Bertha female
## 124	Webber, Miss. Susan female
## 126	Nicola-Yarred, Master. Elias male
## 128	Madsen, Mr. Fridtjof Arne male
## 129	Peter, Miss. Anna female
## 137	Newsom, Miss. Helen Monypeny female
## 142	Nysten, Miss. Anna Sofia female
## 143	Hakkarainen, Mrs. Pekka Pietari (Elin Matilda Dolck) female
## 147	Andersson, Mr. August Edvard ("Wennerstrom") male
## 162	Watt, Mrs. James (Elizabeth "Bessie" Inglis Milne) female
## 167	Chibnall, Mrs. (Edith Martha Bowerman) female
## 173	Johnson, Miss. Eleanor Ileen female
## 184	Becker, Master. Richard F male
## 188	Romaine, Mr. Charles Hallace ("Mr C Rolmane") male
## 191	Pinsky, Mrs. (Rosa) female
## 193	Andersen-Jensen, Miss. Carla Christine Nielsine female
## 194	Navratil, Master. Michel M male
## 195	Brown, Mrs. James Joseph (Margaret Tobin) female
## 205	Cohen, Mr. Gurshon "Gus" male
## 208	Albimona, Mr. Nassef Cassem male
## 209	Carr, Miss. Helen "Ellen" female
## 210	Blank, Mr. Henry male
## 212	Cameron, Miss. Clear Annie female
## 216	Newell, Miss. Madeleine female
## 217	Honkanen, Miss. Eliina female
## 219	Bazzani, Miss. Albina female
## 221	Sunderland, Mr. Victor Francis male
## 225	Hoyt, Mr. Frederick Maxfield male
## 227	Mellors, Mr. William John male
## 231	Harris, Mrs. Henry Birkhardt (Irene Wallach) female
## 234	Asplund, Miss. Lillian Gertrud female
## 238	Collyer, Miss. Marjorie "Lottie" female

## 242	Murphy, Miss. Katherine "Kate" female
## 248	Hamalainen, Mrs. William (Anna) female
## 249	Beckwith, Mr. Richard Leonard male
## 257	Thorne, Mrs. Gertrude Maybelle female
## 259	Ward, Miss. Anna female
## 260	Parrish, Mrs. (Lutie Davis) female
## 262	Asplund, Master. Edvin Rojj Felix male
## 268	Persson, Mr. Ernst Ulrik male
## 270	Bissette, Miss. Amelia female
## 273	Mellinger, Mrs. (Elizabeth Anne Maidment) female
## 276	Andrews, Miss. Kornelia Theodosia female
## 280	Abbott, Mrs. Stanton (Rosa Hunt) female
## 287	de Mulder, Mr. Theodore male
## 289	Hosono, Mr. Masabumi male
## 291	Barber, Miss. Ellen "Nellie" female
## 292	Bishop, Mrs. Dickinson H (Helen Walton) female
## 299	Saalfeld, Mr. Adolphe male
## 300	Baxter, Mrs. James (Helene DeLaudeniere Chaput) female
## 301	Kelly, Miss. Anna Katherine "Annie Kate" female
## 302	McCoy, Mr. Bernard male
## 304	Keane, Miss. Nora A female
## 306	Allison, Master. Hudson Trevor male
## 307	Fleming, Miss. Margaret female
## 312	Ryerson, Miss. Emily Borie female
## 316	Nilsson, Miss. Helmina Josefina female
## 319	Wick, Miss. Mary Natalie female
## 323	Slayter, Miss. Hilda Mary female
## 324	Caldwell, Mrs. Albert Francis (Sylvia Mae Harbaugh) female
## 326	Young, Miss. Marie Grice female
## 328	Ball, Mrs. (Ada E Hall) female
## 329	Goldsmith, Mrs. Frank John (Emily Alice Brown) female
## 330	Hippach, Miss. Jean Gertrude female
## 335	Frauenthal, Mrs. Henry William (Clara Heinsheimer) female
## 338	Burns, Miss. Elizabeth Margaret female
## 339	Dahl, Mr. Karl Edward male
## 341	Navratil, Master. Edmond Roger male
## 342	Fortune, Miss. Alice Elizabeth female
## 347	Smith, Miss. Marion Elsie female
## 348	Davison, Mrs. Thomas Henry (Mary E Finck) female
## 349	Coutts, Master. William Loch "William" male
## 359	McGovern, Miss. Mary female
## 360	Mockler, Miss. Helen Mary "Ellie" female
## 367	Warren, Mrs. Frank Manley (Anna Sophia Atkinson) female
## 369	Jermyn, Miss. Annie female
## 370	Aubart, Mme. Leontine Pauline female
## 371	Harder, Mr. George Achilles male
## 376	Meyer, Mrs. Edgar Joseph (Leila Saks) female
## 377	Landergren, Miss. Aurora Adelia female
## 381	Bidois, Miss. Rosalie female
## 382	Nakid, Miss. Maria ("Mary") female
## 384	Holverson, Mrs. Alexander Oskar (Mary Aline Towner) female
## 388	Buss, Miss. Kate female
## 390	Lehmann, Miss. Bertha female
## 392	Jansson, Mr. Carl Olof male

## 394	Newell, Miss. Marjorie	female
## 395	Sandstrom, Mrs. Hjalmar (Agnes Charlotta Bengtsson)	female
## 400	Trout, Mrs. William H (Jessie L)	female
## 401	Niskanen, Mr. Juha	male
## 408	Richards, Master. William Rowe	male
## 413	Minahan, Miss. Daisy E	female
## 415	Sundman, Mr. Johan Julian	male
## 417	Drew, Mrs. James Vivian (Lulu Thorne Christian)	female
## 418	Silven, Miss. Lyli Karoliina	female
## 427	Clarke, Mrs. Charles V (Ada Maria Winfield)	female
## 430	Pickard, Mr. Berk (Berk Trembisky)	male
## 431	Bjornstrom-Steffansson, Mr. Mauritz Hakan	male
## 432	Thorneycroft, Mrs. Percival (Florence Kate White)	female
## 433	Louch, Mrs. Charles Alexander (Alice Adelaide Slow)	female
## 436	Carter, Miss. Lucile Polk	female
## 438	Richards, Mrs. Sidney (Emily Hocking)	female
## 441	Hart, Mrs. Benjamin (Esther Ada Bloomfield)	female
## 444	Reynaldo, Ms. Encarnacion	female
## 445	Johannesen-Bratthammer, Mr. Bernt	male
## 446	Dodge, Master. Washington	male
## 448	Seward, Mr. Frederic Kimber	male
## 449	Baclini, Miss. Marie Catherine	female
## 450	Peuchen, Major. Arthur Godfrey	male
## 454	Goldenberg, Mr. Samuel L	male
## 456	Jalsevac, Mr. Ivan	male
## 461	Anderson, Mr. Harry	male
## 470	Baclini, Miss. Helene Barbara	female
## 473	West, Mrs. Edwy Arthur (Ada Mary Worth)	female
## 474	Jerwan, Mrs. Amin S (Marie Marthe Thuillard)	female
## 484	Turkula, Mrs. (Hedwig)	female
## 485	Bishop, Mr. Dickinson H	male
## 497	Eustis, Miss. Elizabeth Mussey	female
## 505	Maioni, Miss. Roberta	female
## 507	Quick, Mrs. Frederick Charles (Jane Richards)	female
## 510	Lang, Mr. Fang	male
## 511	Daly, Mr. Eugene Patrick	male
## 513	McGough, Mr. James Robert	male
## 514	Rothschild, Mrs. Martin (Elizabeth L. Barrett)	female
## 517	Lemore, Mrs. (Amelia Milley)	female
## 519	Angle, Mrs. William A (Florence "Mary" Agnes Hughes)	female
## 524	Hippach, Mrs. Louis Albert (Ida Sophia Fischer)	female
## 527	Ridsdale, Miss. Lucy	female
## 531	Quick, Miss. Phyllis May	female
## 534	Peter, Mrs. Catherine (Catherine Rizk)	female
## 538	LeRoy, Miss. Bertha	female
## 540	Frolicher, Miss. Hedwig Margaritha	female
## 544	Beane, Mr. Edward	male
## 548	Padro y Manent, Mr. Julian	male
## 550	Davies, Master. John Morgan Jr	male
## 551	Thayer, Mr. John Borland Jr	male
## 554	Leeni, Mr. Fahim ("Philip Zenni")	male
## 555	Ohman, Miss. Velin	female
## 557	Duff Gordon, Lady. (Lucille Christiana Sutherland) ("Mrs Morgan")	female
## 559	Taussig, Mrs. Emil (Tillie Mandelbaum)	female

## 560	de Messemaeker, Mrs. Guillaume Joseph (Emma) female
## 571	Harris, Mr. George male
## 572	Appleton, Mrs. Edward Dale (Charlotte Lamson) female
## 574	Kelly, Miss. Mary female
## 577	Garside, Miss. Ethel female
## 578	Silvey, Mrs. William Baird (Alice Munger) female
## 580	Jussila, Mr. Eiriik male
## 581	Christy, Miss. Julie Rachel female
## 582	Thayer, Mrs. John Borland (Marian Longstreth Morris) female
## 586	Taussig, Miss. Ruth female
## 588	Frolicher-Stehli, Mr. Maximilian male
## 592	Stephenson, Mrs. Walter Bertram (Martha Eustis) female
## 597	Leitch, Miss. Jessie Wills female
## 601	Jacobsohn, Mrs. Sidney Samuel (Amy Frances Christy) female
## 605	Homer, Mr. Harry ("Mr E Haven") male
## 609	Laroche, Mrs. Joseph (Juliette Marie Louise Lafargue) female
## 610	Shutes, Miss. Elizabeth W female
## 613	Murphy, Miss. Margaret Jane female
## 616	Herman, Miss. Alice female
## 619	Becker, Miss. Marion Louise female
## 622	Kimball, Mr. Edwin Nelson Jr male
## 623	Nakid, Mr. Sahid male
## 628	Longley, Miss. Gretchen Fiske female
## 631	Barkworth, Mr. Algernon Henry Wilson male
## 633	Stahelin-Maemlin, Dr. Max male
## 642	Sagesser, Mlle. Emma female
## 644	Foo, Mr. Choong male
## 646	Harper, Mr. Henry Sleeper male
## 648	Simonius-Blumer, Col. Oberst Alfons male
## 650	Stanley, Miss. Amy Zillah Elsie female
## 652	Doling, Miss. Elsie female
## 654	O'Leary, Miss. Hanora "Norah" female
## 661	Frauenthal, Dr. Henry William male
## 665	Lindqvist, Mr. Eino William male
## 671	Brown, Mrs. Thomas William Solomon (Elizabeth Catherine Ford) female
## 674	Wilhelms, Mr. Charles male
## 678	Turja, Miss. Anna Sofia female
## 680	Cardeza, Mr. Thomas Drake Martinez male
## 690	Madill, Miss. Georgette Alexandra female
## 691	Dick, Mr. Albert Adrian male
## 692	Karun, Miss. Manca female
## 693	Lam, Mr. Ali male
## 698	Mullens, Miss. Katherine "Katie" female
## 702	Silverthorne, Mr. Spencer Victor male
## 707	Kelly, Mrs. Florence "Fannie" female
## 708	Calderhead, Mr. Edward Pennington male
## 711	Mayne, Mlle. Berthe Antonine ("Mrs de Villiers") female
## 713	Taylor, Mr. Elmer Zebley male
## 721	Harper, Miss. Annie Jessie "Nina" female
## 725	Chambers, Mr. Norman Campbell male
## 727	Renouf, Mrs. Peter Henry (Lillian Jefferys) female
## 728	Mannion, Miss. Margareth female
## 731	Allen, Miss. Elisabeth Walton female
## 738	Lesurer, Mr. Gustave J male

## 743	Ryerson, Miss. Susan Parker "Suzette"	female					
## 745	Stranden, Mr. Juho	male					
## 748	Sinkkonen, Miss. Anna	female					
## 751	Wells, Miss. Joan	female					
## 752	Moor, Master. Meier	male					
## 755	Herman, Mrs. Samuel (Jane Laver)	female					
## 756	Hamalainen, Master. Viljo	male					
## 760	Rothes, the Countess. of (Lucy Noel Martha Dyer-Edwards)	female					
## 763	Barah, Mr. Hanna Assi	male					
## 764	Carter, Mrs. William Ernest (Lucile Polk)	female					
## 775	Hocking, Mrs. Elizabeth (Eliza Needs)	female					
## 778	Emanuel, Miss. Virginia Ethel	female					
## 780	Robert, Mrs. Edward Scott (Elisabeth Walton McMillan)	female					
## 782	Dick, Mrs. Albert Adrian (Vera Gillespie)	female					
## 789	Dean, Master. Bertram Vere	male					
## 797	Leader, Dr. Alice (Farnham)	female					
## 798	Osman, Mrs. Mara	female					
## 802	Collyer, Mrs. Harvey (Charlotte Annie Tate)	female					
## 803	Carter, Master. William Thornton II	male					
## 804	Thomas, Master. Assad Alexander	male					
## 810	Chambers, Mrs. Norman Campbell (Bertha Griggs)	female					
## 821	Hays, Mrs. Charles Melville (Clara Jennings Gregg)	female					
## 822	Lulic, Mr. Nikola	male					
## 824	Moor, Mrs. (Beila)	female					
## 828	Mallet, Master. Andre	male					
## 829	McCormack, Mr. Thomas Joseph	male					
## 832	Richards, Master. George Sibley	male					
## 836	Compton, Miss. Sara Rebecca	female					
## 839	Chip, Mr. Chang	male					
## 840	Marechal, Mr. Pierre	male					
## 850	Goldenberg, Mrs. Samuel L (Edwiga Grabowska)	female					
## 854	Lines, Miss. Mary Conover	female					
## 856	Aks, Mrs. Sam (Leah Rosen)	female					
## 857	Wick, Mrs. George Dennick (Mary Hitchcock)	female					
## 858	Daly, Mr. Peter Denis	male					
## 859	Baclini, Mrs. Solomon (Latifa Quran)	female					
## 863	Swift, Mrs. Frederick Joel (Margaret Welles Barron)	female					
## 866	Bystrom, Mrs. (Karolina)	female					
## 867	Duran y More, Miss. Asuncion	female					
## 870	Johnson, Master. Harold Theodor	male					
## 872	Beckwith, Mrs. Richard Leonard (Sallie Monypeny)	female					
## 875	Abelson, Mrs. Samuel (Hannah Wizosky)	female					
## 876	Najib, Miss. Adele Kiamie "Jane"	female					
## 880	Potter, Mrs. Thomas Jr (Lily Alexenia Wilson)	female					
## 881	Shelley, Mrs. William (Imanita Parrish Hall)	female					
## 888	Graham, Miss. Margaret Edith	female					
##	age sib_sp parch		ticket	fare	cabin	embarked	
## 1	22.00	1	0	A/5 21171	7.2500	<NA>	S
## 8	2.00	3	1	349909	21.0750	<NA>	S
## 13	20.00	0	0	A/5. 2151	8.0500	<NA>	S
## 15	14.00	0	0	350406	7.8542	<NA>	S
## 17	2.00	4	1	382652	29.1250	<NA>	Q
## 19	31.00	1	0	345763	18.0000	<NA>	S
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## 31	40.00	0	0	PC	17601	27.7208	<NA>	C
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## 36	42.00	1	0		113789	52.0000	<NA>	S
## 39	18.00	2	0		345764	18.0000	<NA>	S
## 41	40.00	1	0		7546	9.4750	<NA>	S
## 43	NA	0	0		349253	7.8958	<NA>	C
## 46	NA	0	0	S.C./A.4.	23567	8.0500	<NA>	S
## 47	NA	1	0		370371	15.5000	<NA>	Q
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## 52	21.00	0	0	A/4.	39886	7.8000	<NA>	S
## 55	65.00	0	1		113509	61.9792	B30	C
## 58	28.50	0	0		2697	7.2292	<NA>	C
## 60	11.00	5	2	CA	2144	46.9000	<NA>	S
## 64	4.00	3	2		347088	27.9000	<NA>	S
## 68	19.00	0	0	S.P.	3464	8.1583	<NA>	S
## 70	26.00	2	0		315151	8.6625	<NA>	S
## 71	32.00	0	0	C.A.	33111	10.5000	<NA>	S
## 73	21.00	0	0	S.O.C.	14879	73.5000	<NA>	S
## 74	26.00	1	0		2680	14.4542	<NA>	C
## 76	25.00	0	0		348123	7.6500	F G73	S
## 77	NA	0	0		349208	7.8958	<NA>	S
## 78	NA	0	0		374746	8.0500	<NA>	S
## 84	28.00	0	0		113059	47.1000	<NA>	S
## 87	16.00	1	3	W./C.	6608	34.3750	<NA>	S
## 88	NA	0	0	SOTON/OQ	392086	8.0500	<NA>	S
## 90	24.00	0	0		343275	8.0500	<NA>	S
## 91	29.00	0	0		343276	8.0500	<NA>	S
## 93	46.00	1	0	W.E.P.	5734	61.1750	E31	S
## 94	26.00	1	2	C.A.	2315	20.5750	<NA>	S
## 95	59.00	0	0		364500	7.2500	<NA>	S
## 96	NA	0	0		374910	8.0500	<NA>	S
## 97	71.00	0	0	PC	17754	34.6542	A5	C
## 100	34.00	1	0		244367	26.0000	<NA>	S
## 101	28.00	0	0		349245	7.8958	<NA>	S
## 102	NA	0	0		349215	7.8958	<NA>	S
## 103	21.00	0	1		35281	77.2875	D26	S
## 105	37.00	2	0		3101276	7.9250	<NA>	S
## 106	28.00	0	0		349207	7.8958	<NA>	S
## 109	38.00	0	0		349249	7.8958	<NA>	S
## 111	47.00	0	0		110465	52.0000	C110	S
## 112	14.50	1	0		2665	14.4542	<NA>	C
## 113	22.00	0	0		324669	8.0500	<NA>	S
## 114	20.00	1	0		4136	9.8250	<NA>	S
## 115	17.00	0	0		2627	14.4583	<NA>	C
## 116	21.00	0	0	STON/O	2. 3101294	7.9250	<NA>	S
## 118	29.00	1	0		11668	21.0000	<NA>	S
## 119	24.00	0	1	PC	17558	247.5208	B58 B60	C
## 120	2.00	4	2		347082	31.2750	<NA>	S
## 121	21.00	2	0	S.O.C.	14879	73.5000	<NA>	S
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## 125	54.00	0	1		35281	77.2875	D26	S
## 127	NA	0	0		370372	7.7500	<NA>	Q
## 131	33.00	0	0		349241	7.8958	<NA>	C
## 132	20.00	0	0	SOTON/O.Q.	3101307	7.0500	<NA>	S

## 133 47.00	1	0	A/5.	3337	14.5000	<NA>	S	
## 135 25.00	0	0	C.A.	29178	13.0000	<NA>	S	
## 136 23.00	0	0	SC/PARIS	2133	15.0458	<NA>	C	
## 138 37.00	1	0		113803	53.1000	C123	S	
## 139 16.00	0	0		7534	9.2167	<NA>	S	
## 141 NA	0	2		2678	15.2458	<NA>	C	
## 144 19.00	0	0		365222	6.7500	<NA>	Q	
## 145 18.00	0	0		231945	11.5000	<NA>	S	
## 146 19.00	1	1	C.A.	33112	36.7500	<NA>	S	
## 149 36.50	0	2		230080	26.0000	F2	S	
## 150 42.00	0	0		244310	13.0000	<NA>	S	
## 151 51.00	0	0	S.O.P.	1166	12.5250	<NA>	S	
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## 154 40.50	0	2		A/5.	851	14.5000	<NA>	S
## 155 NA	0	0		Fa	265302	7.3125	<NA>	S
## 158 30.00	0	0	SOTON/0Q	392090	8.0500	<NA>	S	
## 160 NA	8	2		CA.	2343	69.5500	<NA>	S
## 161 44.00	0	1		371362	16.1000	<NA>	S	
## 163 26.00	0	0		347068	7.7750	<NA>	S	
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## 165 1.00	4	1		3101295	39.6875	<NA>	S	
## 168 45.00	1	4		347088	27.9000	<NA>	S	
## 170 28.00	0	0		1601	56.4958	<NA>	S	
## 171 61.00	0	0		111240	33.5000	B19	S	
## 172 4.00	4	1		382652	29.1250	<NA>	Q	
## 174 21.00	0	0	STON/0	2.	3101280	7.9250	<NA>	S
## 175 56.00	0	0		17764	30.6958	A7	C	
## 176 18.00	1	1		350404	7.8542	<NA>	S	
## 178 50.00	0	0	PC	17595	28.7125	C49	C	
## 180 36.00	0	0		LINE	0.0000	<NA>	S	
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## 189 40.00	1	1		364849	15.5000	<NA>	Q	
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## 200 24.00	0	0		248747	13.0000	<NA>	S	
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## 203 34.00	0	0		3101264	6.4958	<NA>	S	
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## 214 30.00	0	0		250646	13.0000	<NA>	S	
## 215 NA	1	0		367229	7.7500	<NA>	Q	
## 218 42.00	1	0		243847	27.0000	<NA>	S	
## 220 30.00	0	0		W/C	14208	10.5000	<NA>	S
## 222 27.00	0	0		220367	13.0000	<NA>	S	
## 223 51.00	0	0		21440	8.0500	<NA>	S	
## 224 NA	0	0		349234	7.8958	<NA>	S	
## 226 22.00	0	0		PP	4348	9.3500	<NA>	S
## 228 20.50	0	0		A/5	21173	7.2500	<NA>	S
## 229 18.00	0	0		236171	13.0000	<NA>	S	

## 230	NA	3	1	4133	25.4667	<NA>	S
## 232	29.00	0	0	347067	7.7750	<NA>	S
## 233	59.00	0	0	237442	13.5000	<NA>	S
## 235	24.00	0	0	C.A.	29566 10.5000	<NA>	S
## 236	NA	0	0	W./C.	6609 7.5500	<NA>	S
## 237	44.00	1	0	26707	26.0000	<NA>	S
## 239	19.00	0	0	28665	10.5000	<NA>	S
## 241	NA	1	0	2665	14.4542	<NA>	C
## 243	29.00	0	0	W./C.	14263 10.5000	<NA>	S
## 244	22.00	0	0	STON/O 2.	3101275 7.1250	<NA>	S
## 245	30.00	0	0		2694 7.2250	<NA>	C
## 246	44.00	2	0		19928 90.0000	C78	Q
## 250	54.00	1	0		244252 26.0000	<NA>	S
## 253	62.00	0	0		113514 26.5500	C87	S
## 255	41.00	0	2		370129 20.2125	<NA>	S
## 261	NA	0	0		384461 7.7500	<NA>	Q
## 264	40.00	0	0		112059 0.0000	B94	S
## 265	NA	0	0		382649 7.7500	<NA>	Q
## 266	36.00	0	0	C.A.	17248 10.5000	<NA>	S
## 267	16.00	4	1		3101295 39.6875	<NA>	S
## 271	NA	0	0		113798 31.0000	<NA>	S
## 274	37.00	0	1	PC	17596 29.7000	C118	C
## 277	45.00	0	0		347073 7.7500	<NA>	S
## 278	NA	0	0		239853 0.0000	<NA>	S
## 279	7.00	4	1		382652 29.1250	<NA>	Q
## 281	65.00	0	0		336439 7.7500	<NA>	Q
## 283	16.00	0	0		345778 9.5000	<NA>	S
## 285	NA	0	0		113056 26.0000	A19	S
## 286	33.00	0	0		349239 8.6625	<NA>	C
## 288	22.00	0	0		349206 7.8958	<NA>	S
## 293	36.00	0	0	SC/Paris	2163 12.8750	D	C
## 294	24.00	0	0		349236 8.8500	<NA>	S
## 296	NA	0	0	PC	17612 27.7208	<NA>	C
## 297	23.50	0	0		2693 7.2292	<NA>	C
## 298	2.00	1	2		113781 151.5500	C22 C26	S
## 305	NA	0	0	A/5	2466 8.0500	<NA>	S
## 313	26.00	1	1		250651 26.0000	<NA>	S
## 314	28.00	0	0		349243 7.8958	<NA>	S
## 315	43.00	1	1	F.C.C.	13529 26.2500	<NA>	S
## 318	54.00	0	0		29011 14.0000	<NA>	S
## 321	22.00	0	0	A/5	21172 7.2500	<NA>	S
## 322	27.00	0	0		349219 7.8958	<NA>	S
## 325	NA	8	2	CA.	2343 69.5500	<NA>	S
## 333	38.00	0	1	PC	17582 153.4625	C91	S
## 336	NA	0	0		349225 7.8958	<NA>	S
## 337	29.00	1	0		113776 66.6000	C2	S
## 340	45.00	0	0		113784 35.5000	T	S
## 344	25.00	0	0		244361 13.0000	<NA>	S
## 345	36.00	0	0		229236 13.0000	<NA>	S
## 351	23.00	0	0		7267 9.2250	<NA>	S
## 352	NA	0	0		113510 35.0000	C128	S
## 353	15.00	1	1		2695 7.2292	<NA>	C
## 356	28.00	0	0		345783 9.5000	<NA>	S
## 358	38.00	0	0		237671 13.0000	<NA>	S

## 363	45.00	0	1	2691	14.4542	<NA>	C	
## 364	35.00	0	0	SOTON/O.Q.	3101310	7.0500	<NA>	S
## 365	NA	1	0		370365	15.5000	<NA>	Q
## 366	30.00	0	0		C 7076	7.2500	<NA>	S
## 372	18.00	1	0		3101267	6.4958	<NA>	S
## 374	22.00	0	0	PC	17760	135.6333	<NA>	C
## 375	3.00	3	1		349909	21.0750	<NA>	S
## 378	27.00	0	2		113503	211.5000	C82	C
## 383	32.00	0	0	STON/O	2. 3101293	7.9250	<NA>	S
## 385	NA	0	0		349227	7.8958	<NA>	S
## 386	18.00	0	0	S.O.C.	14879	73.5000	<NA>	S
## 387	1.00	5	2		CA 2144	46.9000	<NA>	S
## 389	NA	0	0		367655	7.7292	<NA>	Q
## 393	28.00	2	0		3101277	7.9250	<NA>	S
## 397	31.00	0	0		350407	7.8542	<NA>	S
## 399	23.00	0	0		244278	10.5000	<NA>	S
## 403	21.00	1	0		4137	9.8250	<NA>	S
## 405	20.00	0	0		315096	8.6625	<NA>	S
## 406	34.00	1	0		28664	21.0000	<NA>	S
## 407	51.00	0	0		347064	7.7500	<NA>	S
## 409	21.00	0	0		312992	7.7750	<NA>	S
## 410	NA	3	1		4133	25.4667	<NA>	S
## 412	NA	0	0		394140	6.8583	<NA>	Q
## 414	NA	0	0		239853	0.0000	<NA>	S
## 416	NA	0	0		343095	8.0500	<NA>	S
## 419	30.00	0	0		28228	13.0000	<NA>	S
## 420	10.00	0	2		345773	24.1500	<NA>	S
## 421	NA	0	0		349254	7.8958	<NA>	C
## 422	21.00	0	0	A/5.	13032	7.7333	<NA>	Q
## 423	29.00	0	0		315082	7.8750	<NA>	S
## 424	28.00	1	1		347080	14.4000	<NA>	S
## 425	18.00	1	1		370129	20.2125	<NA>	S
## 426	NA	0	0	A/4.	34244	7.2500	<NA>	S
## 429	NA	0	0		364851	7.7500	<NA>	Q
## 435	50.00	1	0		13507	55.9000	E44	S
## 439	64.00	1	4		19950	263.0000	C23 C25 C27	S
## 440	31.00	0	0	C.A.	18723	10.5000	<NA>	S
## 451	36.00	1	2	C.A.	34651	27.7500	<NA>	S
## 452	NA	1	0		65303	19.9667	<NA>	S
## 453	30.00	0	0		113051	27.7500	C111	C
## 455	NA	0	0	A/5	2817	8.0500	<NA>	S
## 457	65.00	0	0		13509	26.5500	E38	S
## 460	NA	0	0		371060	7.7500	<NA>	Q
## 462	34.00	0	0		364506	8.0500	<NA>	S
## 463	47.00	0	0		111320	38.5000	E63	S
## 464	48.00	0	0		234360	13.0000	<NA>	S
## 466	38.00	0	0	SOTON/O.Q.	3101306	7.0500	<NA>	S
## 467	NA	0	0		239853	0.0000	<NA>	S
## 468	56.00	0	0		113792	26.5500	<NA>	S
## 469	NA	0	0		36209	7.7250	<NA>	Q
## 471	NA	0	0		323592	7.2500	<NA>	S
## 472	38.00	0	0		315089	8.6625	<NA>	S
## 475	22.00	0	0		7553	9.8375	<NA>	S
## 476	NA	0	0		110465	52.0000	A14	S

## 477	34.00	1	0	31027	21.0000	<NA>	S	
## 478	29.00	1	0	3460	7.0458	<NA>	S	
## 479	22.00	0	0	350060	7.5208	<NA>	S	
## 481	9.00	5	2	CA 2144	46.9000	<NA>	S	
## 482	NA	0	0	239854	0.0000	<NA>	S	
## 486	NA	3	1	4133	25.4667	<NA>	S	
## 489	30.00	0	0	A.5.	18509	8.0500	<NA>	S
## 491	NA	1	0	65304	19.9667	<NA>	S	
## 493	55.00	0	0	113787	30.5000	C30	S	
## 494	71.00	0	0	PC 17609	49.5042	<NA>	C	
## 495	21.00	0	0	A/4	45380	8.0500	<NA>	S
## 496	NA	0	0	2627	14.4583	<NA>	C	
## 498	NA	0	0	C.A.	6212	15.1000	<NA>	S
## 499	25.00	1	2	113781	151.5500	C22 C26	S	
## 503	NA	0	0	330909	7.6292	<NA>	Q	
## 504	37.00	0	0	4135	9.5875	<NA>	S	
## 506	18.00	1	0	PC 17758	108.9000	C65	C	
## 509	28.00	0	0	C 4001	22.5250	<NA>	S	
## 512	NA	0	0	SOTON/DQ	3101316	8.0500	<NA>	S
## 515	24.00	0	0	349209	7.4958	<NA>	S	
## 516	47.00	0	0	36967	34.0208	D46	S	
## 518	NA	0	0	371110	24.1500	<NA>	Q	
## 520	32.00	0	0	349242	7.8958	<NA>	S	
## 523	NA	0	0	2624	7.2250	<NA>	C	
## 525	NA	0	0	2700	7.2292	<NA>	C	
## 526	40.50	0	0	367232	7.7500	<NA>	Q	
## 528	NA	0	0	PC 17483	221.7792	C95	S	
## 529	39.00	0	0	3101296	7.9250	<NA>	S	
## 530	23.00	2	1	29104	11.5000	<NA>	S	
## 532	NA	0	0	2641	7.2292	<NA>	C	
## 533	17.00	1	1	2690	7.2292	<NA>	C	
## 535	30.00	0	0	315084	8.6625	<NA>	S	
## 537	45.00	0	0	113050	26.5500	B38	S	
## 539	NA	0	0	364498	14.5000	<NA>	S	
## 542	9.00	4	2	347082	31.2750	<NA>	S	
## 543	11.00	4	2	347082	31.2750	<NA>	S	
## 545	50.00	1	0	PC 17761	106.4250	C86	C	
## 546	64.00	0	0	693	26.0000	<NA>	S	
## 549	33.00	1	1	363291	20.5250	<NA>	S	
## 552	27.00	0	0	244358	26.0000	<NA>	S	
## 553	NA	0	0	330979	7.8292	<NA>	Q	
## 558	NA	0	0	PC 17757	227.5250	<NA>	C	
## 561	NA	0	0	372622	7.7500	<NA>	Q	
## 563	28.00	0	0	218629	13.5000	<NA>	S	
## 564	NA	0	0	SOTON/DQ	392082	8.0500	<NA>	S
## 565	NA	0	0	SOTON/O.Q.	392087	8.0500	<NA>	S
## 566	24.00	2	0	A/4	48871	24.1500	<NA>	S
## 567	19.00	0	0	349205	7.8958	<NA>	S	
## 569	NA	0	0	2686	7.2292	<NA>	C	
## 575	16.00	0	0	A/4.	20589	8.0500	<NA>	S
## 579	NA	1	0	2689	14.4583	<NA>	C	
## 583	54.00	0	0	28403	26.0000	<NA>	S	
## 584	36.00	0	0	13049	40.1250	A10	C	
## 587	47.00	0	0	237565	15.0000	<NA>	S	

## 590	NA	0	0	A./5.	3235	8.0500	<NA>	S	
## 591	35.00	0	0	STON/O	2.	3101273	7.1250	<NA>	S
## 594	NA	0	2			364848	7.7500	<NA>	Q
## 595	37.00	1	0	SC/AH	29037	26.0000	<NA>	S	
## 596	36.00	1	1			345773	24.1500	<NA>	S
## 599	NA	0	0			2664	7.2250	<NA>	C
## 602	NA	0	0			349214	7.8958	<NA>	S
## 603	NA	0	0			113796	42.4000	<NA>	S
## 606	36.00	1	0			349910	15.5500	<NA>	S
## 607	30.00	0	0			349246	7.8958	<NA>	S
## 611	39.00	1	5			347082	31.2750	<NA>	S
## 612	NA	0	0	SOTON/O.Q.	3101305	7.0500	<NA>	S	
## 615	35.00	0	0			364512	8.0500	<NA>	S
## 618	26.00	1	0	A/5.	3336	16.1000	<NA>	S	
## 620	26.00	0	0			31028	10.5000	<NA>	S
## 621	27.00	1	0			2659	14.4542	<NA>	C
## 625	21.00	0	0			54636	16.1000	<NA>	S
## 626	61.00	0	0			36963	32.3208	D50	S
## 627	57.00	0	0			219533	12.3500	<NA>	Q
## 629	26.00	0	0			349224	7.8958	<NA>	S
## 630	NA	0	0			334912	7.7333	<NA>	Q
## 632	51.00	0	0			347743	7.0542	<NA>	S
## 635	9.00	3	2			347088	27.9000	<NA>	S
## 638	31.00	1	1	C.A.	31921	26.2500	<NA>	S	
## 639	41.00	0	5			3101295	39.6875	<NA>	S
## 640	NA	1	0			376564	16.1000	<NA>	S
## 641	20.00	0	0			350050	7.8542	<NA>	S
## 643	2.00	3	2			347088	27.9000	<NA>	S
## 647	19.00	0	0			349231	7.8958	<NA>	S
## 649	NA	0	0	S.O./P.P.	751	7.5500	<NA>	S	
## 651	NA	0	0			349221	7.8958	<NA>	S
## 653	21.00	0	0			8475	8.4333	<NA>	S
## 655	18.00	0	0			365226	6.7500	<NA>	Q
## 656	24.00	2	0	S.O.C.	14879	73.5000	<NA>	S	
## 657	NA	0	0			349223	7.8958	<NA>	S
## 658	32.00	1	1			364849	15.5000	<NA>	Q
## 659	23.00	0	0			29751	13.0000	<NA>	S
## 660	58.00	0	2			35273	113.2750	D48	C
## 662	40.00	0	0			2623	7.2250	<NA>	C
## 664	36.00	0	0			349210	7.4958	<NA>	S
## 666	32.00	2	0	S.O.C.	14879	73.5000	<NA>	S	
## 667	25.00	0	0			234686	13.0000	<NA>	S
## 668	NA	0	0			312993	7.7750	<NA>	S
## 669	43.00	0	0	A/5	3536	8.0500	<NA>	S	
## 673	70.00	0	0	C.A.	24580	10.5000	<NA>	S	
## 675	NA	0	0			239856	0.0000	<NA>	S
## 676	18.00	0	0			349912	7.7750	<NA>	S
## 677	24.50	0	0			342826	8.0500	<NA>	S
## 681	NA	0	0			330935	8.1375	<NA>	Q
## 683	20.00	0	0			6563	9.2250	<NA>	S
## 684	14.00	5	2			CA 2144	46.9000	<NA>	S
## 685	60.00	1	1			29750	39.0000	<NA>	S
## 686	25.00	1	2	SC/Paris	2123	41.5792	<NA>	C	
## 687	14.00	4	1			3101295	39.6875	<NA>	S

## 688	19.00	0	0	349228	10.1708	<NA>	S	
## 689	18.00	0	0	350036	7.7958	<NA>	S	
## 694	25.00	0	0	2672	7.2250	<NA>	C	
## 695	60.00	0	0	113800	26.5500	<NA>	S	
## 697	44.00	0	0	363592	8.0500	<NA>	S	
## 699	49.00	1	1	17421	110.8833	C68	C	
## 700	42.00	0	0	348121	7.6500	F G63	S	
## 703	18.00	0	1	2691	14.4542	<NA>	C	
## 704	25.00	0	0	36864	7.7417	<NA>	Q	
## 705	26.00	1	0	350025	7.8542	<NA>	S	
## 712	NA	0	0	113028	26.5500	C124	S	
## 714	29.00	0	0	7545	9.4833	<NA>	S	
## 715	52.00	0	0	250647	13.0000	<NA>	S	
## 716	19.00	0	0	348124	7.6500	F G73	S	
## 720	33.00	0	0	347062	7.7750	<NA>	S	
## 723	34.00	0	0	12233	13.0000	<NA>	S	
## 724	50.00	0	0	250643	13.0000	<NA>	S	
## 726	20.00	0	0	315094	8.6625	<NA>	S	
## 730	25.00	1	0	STON/02.	3101271	7.9250	<NA>	S
## 732	11.00	0	0	2699	18.7875	<NA>	C	
## 733	NA	0	0	239855	0.0000	<NA>	S	
## 734	23.00	0	0	28425	13.0000	<NA>	S	
## 735	23.00	0	0	233639	13.0000	<NA>	S	
## 736	28.50	0	0	54636	16.1000	<NA>	S	
## 739	NA	0	0	349201	7.8958	<NA>	S	
## 740	NA	0	0	349218	7.8958	<NA>	S	
## 742	36.00	1	0	19877	78.8500	C46	S	
## 744	24.00	1	0	376566	16.1000	<NA>	S	
## 746	70.00	1	1	WE/P 5735	71.0000	B22	S	
## 747	16.00	1	1	C.A. 2673	20.2500	<NA>	S	
## 749	19.00	1	0	113773	53.1000	D30	S	
## 750	31.00	0	0	335097	7.7500	<NA>	Q	
## 753	33.00	0	0	345780	9.5000	<NA>	S	
## 754	23.00	0	0	349204	7.8958	<NA>	S	
## 758	18.00	0	0	29108	11.5000	<NA>	S	
## 759	34.00	0	0	363294	8.0500	<NA>	S	
## 761	NA	0	0	358585	14.5000	<NA>	S	
## 762	41.00	0	0	SOTON/02	3101272	7.1250	<NA>	S
## 765	16.00	0	0	347074	7.7750	<NA>	S	
## 767	NA	0	0	112379	39.6000	<NA>	C	
## 768	30.50	0	0	364850	7.7500	<NA>	Q	
## 769	NA	1	0	371110	24.1500	<NA>	Q	
## 770	32.00	0	0	8471	8.3625	<NA>	S	
## 771	24.00	0	0	345781	9.5000	<NA>	S	
## 772	48.00	0	0	350047	7.8542	<NA>	S	
## 773	57.00	0	0	S.O./P.P. 3	10.5000	E77	S	
## 774	NA	0	0	2674	7.2250	<NA>	C	
## 777	NA	0	0	383121	7.7500	F38	Q	
## 779	NA	0	0	36865	7.7375	<NA>	Q	
## 783	29.00	0	0	113501	30.0000	D6	S	
## 785	25.00	0	0	SOTON/O.Q.	3101312	7.0500	<NA>	S
## 786	25.00	0	0	374887	7.2500	<NA>	S	
## 788	8.00	4	1	382652	29.1250	<NA>	Q	
## 790	46.00	0	0	PC 17593	79.2000	B82 B84	C	

## 791	NA	0	0	12460	7.7500	<NA>	Q	
## 792	16.00	0	0	239865	26.0000	<NA>	S	
## 793	NA	8	2	CA.	2343 69.5500	<NA>	S	
## 794	NA	0	0	PC	17600 30.6958	<NA>	C	
## 796	39.00	0	0		28213 13.0000	<NA>	S	
## 800	30.00	1	1		345773 24.1500	<NA>	S	
## 801	34.00	0	0		250647 13.0000	<NA>	S	
## 807	39.00	0	0		112050 0.0000	A36	S	
## 808	18.00	0	0		347087 7.7750	<NA>	S	
## 809	39.00	0	0		248723 13.0000	<NA>	S	
## 811	26.00	0	0		3474 7.8875	<NA>	S	
## 812	39.00	0	0	A/4	48871 24.1500	<NA>	S	
## 814	6.00	4	2		347082 31.2750	<NA>	S	
## 815	30.50	0	0		364499 8.0500	<NA>	S	
## 816	NA	0	0		112058 0.0000	B102	S	
## 817	23.00	0	0	STON/02.	3101290 7.9250	<NA>	S	
## 818	31.00	1	1	S.C./PARIS	2079 37.0042	<NA>	C	
## 819	43.00	0	0		C 7075 6.4500	<NA>	S	
## 823	38.00	0	0		19972 0.0000	<NA>	S	
## 825	2.00	4	1		3101295 39.6875	<NA>	S	
## 827	NA	0	0		1601 56.4958	<NA>	S	
## 833	NA	0	0		2671 7.2292	<NA>	C	
## 834	23.00	0	0		347468 7.8542	<NA>	S	
## 835	18.00	0	0		2223 8.3000	<NA>	S	
## 837	21.00	0	0		315097 8.6625	<NA>	S	
## 838	NA	0	0		392092 8.0500	<NA>	S	
## 841	20.00	0	0	SOTON/02	3101287 7.9250	<NA>	S	
## 844	34.50	0	0		2683 6.4375	<NA>	C	
## 845	17.00	0	0		315090 8.6625	<NA>	S	
## 846	42.00	0	0		C.A. 5547 7.5500	<NA>	S	
## 847	NA	8	2		CA.	2343 69.5500	<NA>	S
## 848	35.00	0	0		349213 7.8958	<NA>	C	
## 849	28.00	0	1		248727 33.0000	<NA>	S	
## 851	4.00	4	2		347082 31.2750	<NA>	S	
## 852	74.00	0	0		347060 7.7750	<NA>	S	
## 855	44.00	1	0		244252 26.0000	<NA>	S	
## 860	NA	0	0		2629 7.2292	<NA>	C	
## 862	21.00	1	0		28134 11.5000	<NA>	S	
## 864	NA	8	2		CA.	2343 69.5500	<NA>	S
## 865	24.00	0	0		233866 13.0000	<NA>	S	
## 868	31.00	0	0		PC	17590 50.4958	A24	S
## 869	NA	0	0		345777 9.5000	<NA>	S	
## 873	33.00	0	0		695 5.0000	B51	B53	B55
## 874	47.00	0	0		345765 9.0000	<NA>	S	
## 877	20.00	0	0		7534 9.8458	<NA>	S	
## 878	19.00	0	0		349212 7.8958	<NA>	S	
## 882	33.00	0	0		349257 7.8958	<NA>	S	
## 883	22.00	0	0		7552 10.5167	<NA>	S	
## 884	28.00	0	0	C.A./SOTON	34068 10.5000	<NA>	S	
## 885	25.00	0	0	SOTON/0Q	392076 7.0500	<NA>	S	
## 886	39.00	0	5		382652 29.1250	<NA>	Q	
## 887	27.00	0	0		211536 13.0000	<NA>	S	
## 889	NA	1	2		W./C.	6607 23.4500	<NA>	S
## 891	32.00	0	0		370376 7.7500	<NA>	Q	

## 2	38.00	1	0	PC 17599	71.2833	C85	C	
## 3	26.00	0	0	STON/02.	3101282	7.9250	<NA>	S
## 9	27.00	0	2		347742	11.1333	<NA>	S
## 11	4.00	1	1		PP 9549	16.7000	G6	S
## 16	55.00	0	0		248706	16.0000	<NA>	S
## 20	NA	0	0		2649	7.2250	<NA>	C
## 22	34.00	0	0		248698	13.0000	D56	S
## 23	15.00	0	0		330923	8.0292	<NA>	Q
## 24	28.00	0	0		113788	35.5000	A6	S
## 26	38.00	1	5		347077	31.3875	<NA>	S
## 29	NA	0	0		330959	7.8792	<NA>	Q
## 32	NA	1	0	PC 17569	146.5208	B78	C	
## 33	NA	0	0		335677	7.7500	<NA>	Q
## 37	NA	0	0		2677	7.2292	<NA>	C
## 45	19.00	0	0		330958	7.8792	<NA>	Q
## 56	NA	0	0		19947	35.5000	C52	S
## 57	21.00	0	0	C.A.	31026	10.5000	<NA>	S
## 59	5.00	1	2		C.A. 34651	27.7500	<NA>	S
## 62	38.00	0	0		113572	80.0000	B28	<NA>
## 66	NA	1	1		2661	15.2458	<NA>	C
## 67	29.00	0	0	C.A.	29395	10.5000	F33	S
## 69	17.00	4	2		3101281	7.9250	<NA>	S
## 75	32.00	0	0		1601	56.4958	<NA>	S
## 79	0.83	0	2		248738	29.0000	<NA>	S
## 80	30.00	0	0		364516	12.4750	<NA>	S
## 83	NA	0	0		330932	7.7875	<NA>	Q
## 85	17.00	0	0	SO/C	14885	10.5000	<NA>	S
## 86	33.00	3	0		3101278	15.8500	<NA>	S
## 89	23.00	3	2		19950	263.0000	C23 C25 C27	S
## 98	23.00	0	1	PC 17759	63.3583	D10 D12	C	
## 99	34.00	0	1		231919	23.0000	<NA>	S
## 107	21.00	0	0		343120	7.6500	<NA>	S
## 108	NA	0	0		312991	7.7750	<NA>	S
## 110	NA	1	0		371110	24.1500	<NA>	Q
## 124	32.50	0	0		27267	13.0000	E101	S
## 126	12.00	1	0		2651	11.2417	<NA>	C
## 128	24.00	0	0	C	17369	7.1417	<NA>	S
## 129	NA	1	1		2668	22.3583	F E69	C
## 137	19.00	0	2		11752	26.2833	D47	S
## 142	22.00	0	0		347081	7.7500	<NA>	S
## 143	24.00	1	0	STON/02.	3101279	15.8500	<NA>	S
## 147	27.00	0	0		350043	7.7958	<NA>	S
## 162	40.00	0	0	C.A.	33595	15.7500	<NA>	S
## 167	NA	0	1		113505	55.0000	E33	S
## 173	1.00	1	1		347742	11.1333	<NA>	S
## 184	1.00	2	1		230136	39.0000	F4	S
## 188	45.00	0	0		111428	26.5500	<NA>	S
## 191	32.00	0	0		234604	13.0000	<NA>	S
## 193	19.00	1	0		350046	7.8542	<NA>	S
## 194	3.00	1	1		230080	26.0000	F2	S
## 195	44.00	0	0	PC 17610	27.7208	B4	C	
## 205	18.00	0	0	A/5 3540	8.0500	<NA>	S	
## 208	26.00	0	0		2699	18.7875	<NA>	C
## 209	16.00	0	0		367231	7.7500	<NA>	Q

## 210	40.00	0	0	112277	31.0000	A31	C
## 212	35.00	0	0	F.C.C.	13528 21.0000	<NA>	S
## 216	31.00	1	0		35273 113.2750	D36	C
## 217	27.00	0	0	STON/02.	3101283 7.9250	<NA>	S
## 219	32.00	0	0		11813 76.2917	D15	C
## 221	16.00	0	0	SOTON/0Q	392089 8.0500	<NA>	S
## 225	38.00	1	0		19943 90.0000	C93	S
## 227	19.00	0	0	SW/PP	751 10.5000	<NA>	S
## 231	35.00	1	0		36973 83.4750	C83	S
## 234	5.00	4	2		347077 31.3875	<NA>	S
## 238	8.00	0	2	C.A.	31921 26.2500	<NA>	S
## 242	NA	1	0		367230 15.5000	<NA>	Q
## 248	24.00	0	2		250649 14.5000	<NA>	S
## 249	37.00	1	1		11751 52.5542	D35	S
## 257	NA	0	0	PC	17585 79.2000	<NA>	C
## 259	35.00	0	0	PC	17755 512.3292	<NA>	C
## 260	50.00	0	1		230433 26.0000	<NA>	S
## 262	3.00	4	2		347077 31.3875	<NA>	S
## 268	25.00	1	0		347083 7.7750	<NA>	S
## 270	35.00	0	0	PC	17760 135.6333	C99	S
## 273	41.00	0	1		250644 19.5000	<NA>	S
## 276	63.00	1	0		13502 77.9583	D7	S
## 280	35.00	1	1	C.A.	2673 20.2500	<NA>	S
## 287	30.00	0	0		345774 9.5000	<NA>	S
## 289	42.00	0	0		237798 13.0000	<NA>	S
## 291	26.00	0	0		19877 78.8500	<NA>	S
## 292	19.00	1	0		11967 91.0792	B49	C
## 299	NA	0	0		19988 30.5000	C106	S
## 300	50.00	0	1	PC	17558 247.5208	B58 B60	C
## 301	NA	0	0		9234 7.7500	<NA>	Q
## 302	NA	2	0		367226 23.2500	<NA>	Q
## 304	NA	0	0		226593 12.3500	E101	Q
## 306	0.92	1	2		113781 151.5500	C22 C26	S
## 307	NA	0	0		17421 110.8833	<NA>	C
## 312	18.00	2	2	PC	17608 262.3750	B57 B59 B63 B66	C
## 316	26.00	0	0		347470 7.8542	<NA>	S
## 319	31.00	0	2		36928 164.8667	C7	S
## 323	30.00	0	0		234818 12.3500	<NA>	Q
## 324	22.00	1	1		248738 29.0000	<NA>	S
## 326	36.00	0	0	PC	17760 135.6333	C32	C
## 328	36.00	0	0		28551 13.0000	D	S
## 329	31.00	1	1		363291 20.5250	<NA>	S
## 330	16.00	0	1		111361 57.9792	B18	C
## 335	NA	1	0	PC	17611 133.6500	<NA>	S
## 338	41.00	0	0		16966 134.5000	E40	C
## 339	45.00	0	0		7598 8.0500	<NA>	S
## 341	2.00	1	1		230080 26.0000	F2	S
## 342	24.00	3	2		19950 263.0000	C23 C25 C27	S
## 347	40.00	0	0		31418 13.0000	<NA>	S
## 348	NA	1	0		386525 16.1000	<NA>	S
## 349	3.00	1	1	C.A.	37671 15.9000	<NA>	S
## 359	NA	0	0		330931 7.8792	<NA>	Q
## 360	NA	0	0		330980 7.8792	<NA>	Q
## 367	60.00	1	0		110813 75.2500	D37	C

## 369	NA	0	0	14313	7.7500	<NA>	Q	
## 370	24.00	0	0	PC 17477	69.3000	B35	C	
## 371	25.00	1	0	11765	55.4417	E50	C	
## 376	NA	1	0	PC 17604	82.1708	<NA>	C	
## 377	22.00	0	0	C 7077	7.2500	<NA>	S	
## 381	42.00	0	0	PC 17757	227.5250	<NA>	C	
## 382	1.00	0	2	2653	15.7417	<NA>	C	
## 384	35.00	1	0	113789	52.0000	<NA>	S	
## 388	36.00	0	0	27849	13.0000	<NA>	S	
## 390	17.00	0	0	SC 1748	12.0000	<NA>	C	
## 392	21.00	0	0	350034	7.7958	<NA>	S	
## 394	23.00	1	0	35273	113.2750	D36	C	
## 395	24.00	0	2	PP 9549	16.7000	G6	S	
## 400	28.00	0	0	240929	12.6500	<NA>	S	
## 401	39.00	0	0	STON/O 2.	3101289	7.9250	<NA>	S
## 408	3.00	1	1	29106	18.7500	<NA>	S	
## 413	33.00	1	0	19928	90.0000	C78	Q	
## 415	44.00	0	0	STON/O 2.	3101269	7.9250	<NA>	S
## 417	34.00	1	1	28220	32.5000	<NA>	S	
## 418	18.00	0	2	250652	13.0000	<NA>	S	
## 427	28.00	1	0	2003	26.0000	<NA>	S	
## 430	32.00	0	0	SOTON/O.Q.	392078	8.0500	E10	S
## 431	28.00	0	0	110564	26.5500	C52	S	
## 432	NA	1	0	376564	16.1000	<NA>	S	
## 433	42.00	1	0	SC/AH 3085	26.0000	<NA>	S	
## 436	14.00	1	2	113760	120.0000	B96 B98	S	
## 438	24.00	2	3	29106	18.7500	<NA>	S	
## 441	45.00	1	1	F.C.C.	13529	26.2500	<NA>	S
## 444	28.00	0	0	230434	13.0000	<NA>	S	
## 445	NA	0	0	65306	8.1125	<NA>	S	
## 446	4.00	0	2	33638	81.8583	A34	S	
## 448	34.00	0	0	113794	26.5500	<NA>	S	
## 449	5.00	2	1	2666	19.2583	<NA>	C	
## 450	52.00	0	0	113786	30.5000	C104	S	
## 454	49.00	1	0	17453	89.1042	C92	C	
## 456	29.00	0	0	349240	7.8958	<NA>	C	
## 461	48.00	0	0	19952	26.5500	E12	S	
## 470	0.75	2	1	2666	19.2583	<NA>	C	
## 473	33.00	1	2	C.A.	34651	27.7500	<NA>	S
## 474	23.00	0	0	SC/AH Basle	541	13.7917	D	C
## 484	63.00	0	0	4134	9.5875	<NA>	S	
## 485	25.00	1	0	11967	91.0792	B49	C	
## 497	54.00	1	0	36947	78.2667	D20	C	
## 505	16.00	0	0	110152	86.5000	B79	S	
## 507	33.00	0	2	26360	26.0000	<NA>	S	
## 510	26.00	0	0	1601	56.4958	<NA>	S	
## 511	29.00	0	0	382651	7.7500	<NA>	Q	
## 513	36.00	0	0	PC 17473	26.2875	E25	S	
## 514	54.00	1	0	PC 17603	59.4000	<NA>	C	
## 517	34.00	0	0	C.A.	34260	10.5000	F33	S
## 519	36.00	1	0	226875	26.0000	<NA>	S	
## 524	44.00	0	1	111361	57.9792	B18	C	
## 527	50.00	0	0	W./C.	14258	10.5000	<NA>	S
## 531	2.00	1	1	26360	26.0000	<NA>	S	

## 534	NA	0	2		2668	22.3583	<NA>	C	
## 538	30.00	0	0	PC	17761	106.4250	<NA>	C	
## 540	22.00	0	2		13568	49.5000	B39	C	
## 544	32.00	1	0		2908	26.0000	<NA>	S	
## 548	NA	0	0	SC/PARIS	2146	13.8625	<NA>	C	
## 550	8.00	1	1		C.A.	33112	36.7500	<NA>	S
## 551	17.00	0	2		17421	110.8833	C70	C	
## 554	22.00	0	0		2620	7.2250	<NA>	C	
## 555	22.00	0	0		347085	7.7750	<NA>	S	
## 557	48.00	1	0		11755	39.6000	A16	C	
## 559	39.00	1	1		110413	79.6500	E67	S	
## 560	36.00	1	0		345572	17.4000	<NA>	S	
## 571	62.00	0	0	S.W./PP	752	10.5000	<NA>	S	
## 572	53.00	2	0		11769	51.4792	C101	S	
## 574	NA	0	0		14312	7.7500	<NA>	Q	
## 577	34.00	0	0		243880	13.0000	<NA>	S	
## 578	39.00	1	0		13507	55.9000	E44	S	
## 580	32.00	0	0	STON/O 2.	3101286	7.9250	<NA>	S	
## 581	25.00	1	1		237789	30.0000	<NA>	S	
## 582	39.00	1	1		17421	110.8833	C68	C	
## 586	18.00	0	2		110413	79.6500	E68	S	
## 588	60.00	1	1		13567	79.2000	B41	C	
## 592	52.00	1	0		36947	78.2667	D20	C	
## 597	NA	0	0		248727	33.0000	<NA>	S	
## 601	24.00	2	1		243847	27.0000	<NA>	S	
## 605	35.00	0	0		111426	26.5500	<NA>	C	
## 609	22.00	1	2	SC/Paris	2123	41.5792	<NA>	C	
## 610	40.00	0	0		PC	17582	153.4625	C125	S
## 613	NA	1	0		367230	15.5000	<NA>	Q	
## 616	24.00	1	2		220845	65.0000	<NA>	S	
## 619	4.00	2	1		230136	39.0000	F4	S	
## 622	42.00	1	0		11753	52.5542	D19	S	
## 623	20.00	1	1		2653	15.7417	<NA>	C	
## 628	21.00	0	0		13502	77.9583	D9	S	
## 631	80.00	0	0		27042	30.0000	A23	S	
## 633	32.00	0	0		13214	30.5000	B50	C	
## 642	24.00	0	0	PC	17477	69.3000	B35	C	
## 644	NA	0	0		1601	56.4958	<NA>	S	
## 646	48.00	1	0	PC	17572	76.7292	D33	C	
## 648	56.00	0	0		13213	35.5000	A26	C	
## 650	23.00	0	0	CA.	2314	7.5500	<NA>	S	
## 652	18.00	0	1		231919	23.0000	<NA>	S	
## 654	NA	0	0		330919	7.8292	<NA>	Q	
## 661	50.00	2	0	PC	17611	133.6500	<NA>	S	
## 665	20.00	1	0	STON/O 2.	3101285	7.9250	<NA>	S	
## 671	40.00	1	1		29750	39.0000	<NA>	S	
## 674	31.00	0	0		244270	13.0000	<NA>	S	
## 678	18.00	0	0		4138	9.8417	<NA>	S	
## 680	36.00	0	1	PC	17755	512.3292	B51 B53 B55	C	
## 690	15.00	0	1		24160	211.3375	B5	S	
## 691	31.00	1	0		17474	57.0000	B20	S	
## 692	4.00	0	1		349256	13.4167	<NA>	C	
## 693	NA	0	0		1601	56.4958	<NA>	S	
## 698	NA	0	0		35852	7.7333	<NA>	Q	

## 702 35.00	0	0	PC 17475	26.2875	E24	S	
## 707 45.00	0	0	223596	13.5000	<NA>	S	
## 708 42.00	0	0	PC 17476	26.2875	E24	S	
## 711 24.00	0	0	PC 17482	49.5042	C90	C	
## 713 48.00	1	0	19996	52.0000	C126	S	
## 721 6.00	0	1	248727	33.0000	<NA>	S	
## 725 27.00	1	0	113806	53.1000	E8	S	
## 727 30.00	3	0	31027	21.0000	<NA>	S	
## 728 NA	0	0	36866	7.7375	<NA>	Q	
## 731 29.00	0	0	24160	211.3375	B5	S	
## 738 35.00	0	0	PC 17755	512.3292	B101	C	
## 743 21.00	2	2	PC 17608	262.3750	B57 B59 B63 B66	C	
## 745 31.00	0	0	STON/O 2.	3101288	7.9250	<NA>	S
## 748 30.00	0	0	250648	13.0000	<NA>	S	
## 751 4.00	1	1	29103	23.0000	<NA>	S	
## 752 6.00	0	1	392096	12.4750	E121	S	
## 755 48.00	1	2	220845	65.0000	<NA>	S	
## 756 0.67	1	1	250649	14.5000	<NA>	S	
## 760 33.00	0	0	110152	86.5000	B77	S	
## 763 20.00	0	0	2663	7.2292	<NA>	C	
## 764 36.00	1	2	113760	120.0000	B96 B98	S	
## 775 54.00	1	3	29105	23.0000	<NA>	S	
## 778 5.00	0	0	364516	12.4750	<NA>	S	
## 780 43.00	0	1	24160	211.3375	B3	S	
## 782 17.00	1	0	17474	57.0000	B20	S	
## 789 1.00	1	2	C.A. 2315	20.5750	<NA>	S	
## 797 49.00	0	0	17465	25.9292	D17	S	
## 798 31.00	0	0	349244	8.6833	<NA>	S	
## 802 31.00	1	1	C.A. 31921	26.2500	<NA>	S	
## 803 11.00	1	2	113760	120.0000	B96 B98	S	
## 804 0.42	0	1	2625	8.5167	<NA>	C	
## 810 33.00	1	0	113806	53.1000	E8	S	
## 821 52.00	1	1	12749	93.5000	B69	S	
## 822 27.00	0	0	315098	8.6625	<NA>	S	
## 824 27.00	0	1	392096	12.4750	E121	S	
## 828 1.00	0	2	S.C./PARIS 2079	37.0042	<NA>	C	
## 829 NA	0	0	367228	7.7500	<NA>	Q	
## 832 0.83	1	1	29106	18.7500	<NA>	S	
## 836 39.00	1	1	PC 17756	83.1583	E49	C	
## 839 32.00	0	0	1601	56.4958	<NA>	S	
## 840 NA	0	0	11774	29.7000	C47	C	
## 850 NA	1	0	17453	89.1042	C92	C	
## 854 16.00	0	1	PC 17592	39.4000	D28	S	
## 856 18.00	0	1	392091	9.3500	<NA>	S	
## 857 45.00	1	1	36928	164.8667	<NA>	S	
## 858 51.00	0	0	113055	26.5500	E17	S	
## 859 24.00	0	3	2666	19.2583	<NA>	C	
## 863 48.00	0	0	17466	25.9292	D17	S	
## 866 42.00	0	0	236852	13.0000	<NA>	S	
## 867 27.00	1	0	SC/PARIS 2149	13.8583	<NA>	C	
## 870 4.00	1	1	347742	11.1333	<NA>	S	
## 872 47.00	1	1	11751	52.5542	D35	S	
## 875 28.00	1	0	P/PP 3381	24.0000	<NA>	C	
## 876 15.00	0	0	2667	7.2250	<NA>	C	

```
## 880 56.00      0      1      11767  83.1583      C50      C
## 881 25.00      0      1      230433  26.0000    <NA>      S
## 888 19.00      0      0      112053  30.0000      B42      S
```

```
# check for the missing values
sum(is.na(titanic_train))
```

```
## [1] 695
```

```
sum(is.na(titanic_train$age))
```

```
## [1] 146
```

```
sum(is.na(titanic_train$cabin))
```

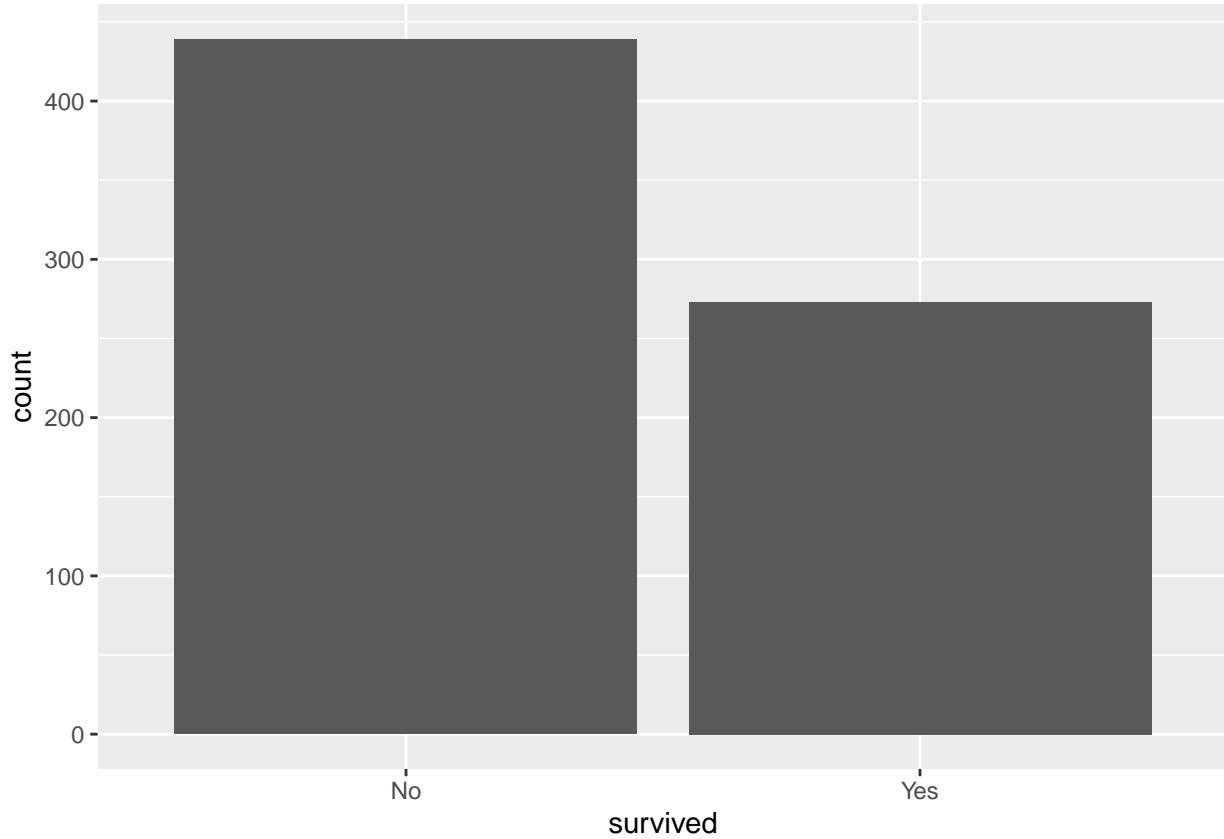
```
## [1] 548
```

So, after splitting the data into train and test. Now train data has 667 rows and testing data has 224 rows. The train data holds the 75% of the whole dataset. The splitting of the dataset could help us try several models in training set and find the best fit value to testing set. For missing value I used is.na to check for the missing value of the training set and after digging inside we could see the missing values are about age and cabin.

Question 2

Using the **training** data set, explore/describe the distribution of the outcome variable **survived**.

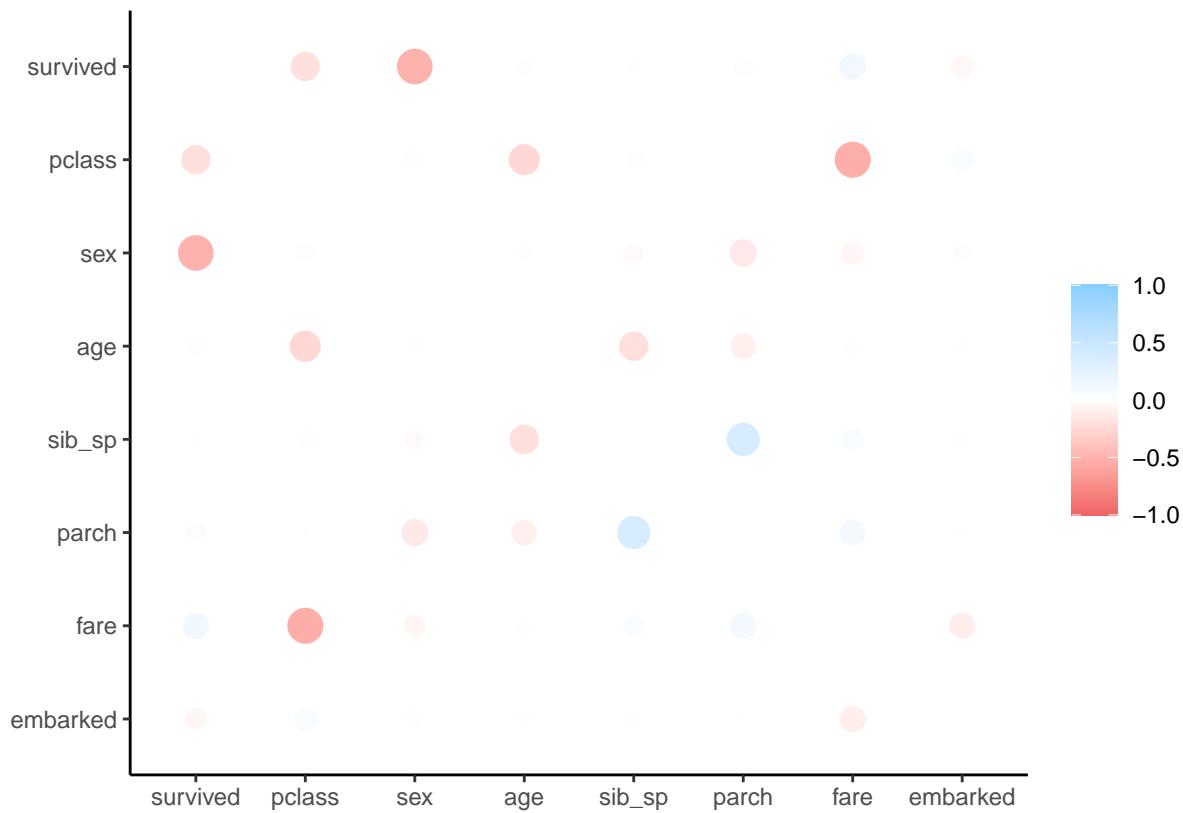
```
titanic_train %>%
  ggplot(aes( x = survived)) +
  geom_bar()
```



Question 3

Using the **training** data set, create a correlation matrix of all continuous variables. Create a visualization of the matrix, and describe any patterns you see. Are any predictors correlated with each other? Which ones, and in which direction?

```
cor_titanic_train <- titanic_train %>%
  dplyr::select(-passenger_id, -name, -cabin, -ticket) %>%
  mutate(sex = fct_recode(sex, "0" = "male", "1" = "female")) %>%
  mutate(embarked = fct_recode(embarked, "1" = "C", "2" = "Q", "3"="S")) %>%
  mutate(sex = as.integer(sex),
         pclass = as.integer(pclass),
         survived = as.integer(survived),
         embarked = as.integer(embarked)) %>%
  correlate(use = "pairwise.complete.obs", method = "pearson")
rplot(cor_titanic_train)
```



Question 4

Using the **training** data, create a recipe predicting the outcome variable **survived**. Include the following predictors: ticket class, sex, age, number of siblings or spouses aboard, number of parents or children aboard, and passenger fare.

Recall that there were missing values for **age**. To deal with this, add an imputation step using **step_impute_linear()**. Next, use **step_dummy()** to **dummy** encode categorical predictors. Finally, include interactions between:

- Sex and passenger fare, and
- Age and passenger fare.

You'll need to investigate the **tidymodels** documentation to find the appropriate step functions to use.

```
titanic_recipe <- recipe(survived ~ pclass + sex + age + sib_sp + parch + fare, data = titanic_train ) %>%
  step_impute_linear(age) %>%
  step_dummy(all_nominal_predictors()) %>%
  step_interact(terms = ~ starts_with("sex"):fare +
    age:fare)

titanic_recipe
```

```
## Recipe
##
```

```

## Inputs:
##
##      role #variables
##      outcome         1
##      predictor        6
##
## Operations:
##
## Linear regression imputation for age
## Dummy variables from all_nominal_predictors()
## Interactions with starts_with("sex"):fare + age:fare

```

Question 5

Specify a **logistic regression** model for classification using the "glm" engine. Then create a workflow. Add your model and the appropriate recipe. Finally, use `fit()` to apply your workflow to the **training** data.

Hint: Make sure to store the results of `fit()`. You'll need them later on.

```

titanic_log <- logistic_reg() %>%
  set_engine("glm") %>%
  set_mode("classification")

titanic_wkflow <- workflow() %>%
  add_model(titanic_log) %>%
  add_recipe(titanic_recipe)

log_fit <- fit(titanic_wkflow, titanic_train)

```

Question 6

Repeat **Question 5**, but this time specify a linear discriminant analysis model for classification using the "MASS" engine.

```

titanic_lda <- discrim_linear() %>%
  set_mode("classification") %>%
  set_engine("MASS")

lda_wkflow <- workflow() %>%
  add_model(titanic_lda) %>%
  add_recipe(titanic_recipe)
class(titanic_train)

## [1] "data.frame"

lda_fit <- fit(lda_wkflow, titanic_train)

```

Question 7

Repeat **Question 5**, but this time specify a quadratic discriminant analysis model for classification using the "MASS" engine.

```
titanic_qda <- discrim_quad() %>%
  set_mode("classification") %>%
  set_engine("MASS")

qda_wkflow <- workflow() %>%
  add_model(titanic_qda) %>%
  add_recipe(titanic_recipe)

qda_fit <- fit(qda_wkflow, titanic_train)
```

Question 8

Repeat Question 5, but this time specify a naive Bayes model for classification using the "klaR" engine. Set the `usekernel` argument to FALSE.

```
titanic_bay <- naive_Bayes() %>%
  set_mode("classification") %>%
  set_engine("klaR") %>%
  set_args(usekernel = FALSE)

bayes_wkflow <- workflow() %>%
  add_model(titanic_bay) %>%
  add_recipe(titanic_recipe)

bayes_fit <- fit(bayes_wkflow, titanic_train)
```

Question 9

Now you've fit four different models to your training data.

Use `predict()` and `bind_cols()` to generate predictions using each of these 4 models and your **training** data. Then use the `accuracy` metric to assess the performance of each of the four models.

Which model achieved the highest accuracy on the training data?

```
log_predic <- predict(log_fit, titanic_train)
lda_predict <- predict(lda_fit, titanic_train)
qda_predict <- predict(qda_fit, titanic_train)
bayes_predict <- predict(bayes_fit, titanic_train)

predict_bound <- bind_cols(log_predic, lda_predict, qda_predict, bayes_predict, titanic_train$survived)
colnames(predict_bound) = c("Log Predict", "LDA Predict", "QDA Predict",
                            "Bayes Predict", "Survived")

predict_bound

## # A tibble: 712 x 5
##   `Log Predict` `LDA Predict` `QDA Predict` `Bayes Predict` `Survived`
##   <fct>        <fct>       <fct>       <fct>       <fct>
## 1 No          No          No          No          No
## 2 No          No          No          No          No
## 3 No          No          No          No          No
```

```

## 4 Yes      Yes      No       No      No
## 5 No       No       No       No      No
## 6 No       Yes      No       No      No
## 7 No       No       No       No      No
## 8 No       No       No       No      No
## 9 No       No       No       Yes     No
## 10 No      No       No       No      No
## # ... with 702 more rows

```

```

log_acc <- augment(log_fit, new_data = titanic_train) %>%
  accuracy(truth = survived, estimate = .pred_class)
lda_acc <- augment(lda_fit, new_data = titanic_train) %>%
  accuracy(truth = survived, estimate = .pred_class)
qda_acc <- augment(qda_fit, new_data = titanic_train) %>%
  accuracy(truth = survived, estimate = .pred_class)
bayes_acc <- augment(bayes_fit, new_data = titanic_train) %>%
  accuracy(truth = survived, estimate = .pred_class)

log_acc

```

```

## # A tibble: 1 x 3
##   .metric  .estimator .estimate
##   <chr>    <chr>        <dbl>
## 1 accuracy binary     0.795

```

```
lda_acc
```

```

## # A tibble: 1 x 3
##   .metric  .estimator .estimate
##   <chr>    <chr>        <dbl>
## 1 accuracy binary     0.782

```

```
qda_acc
```

```

## # A tibble: 1 x 3
##   .metric  .estimator .estimate
##   <chr>    <chr>        <dbl>
## 1 accuracy binary     0.771

```

```
bayes_acc
```

```

## # A tibble: 1 x 3
##   .metric  .estimator .estimate
##   <chr>    <chr>        <dbl>
## 1 accuracy binary     0.763

```

We could say log has the highest prediction.

Question 10

Fit the model with the highest training accuracy to the **testing** data. Report the accuracy of the model on the **testing** data.

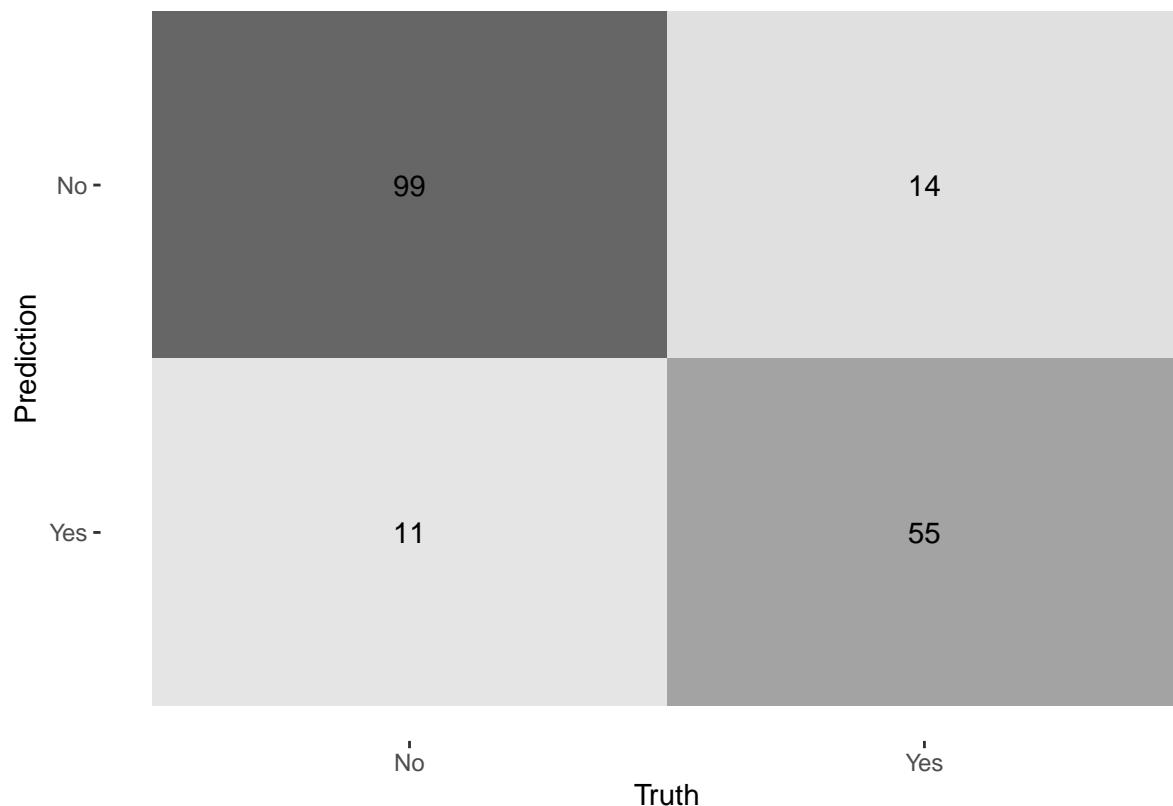
Again using the **testing** data, create a confusion matrix and visualize it. Plot an ROC curve and calculate the area under it (AUC).

How did the model perform? Compare its training and testing accuracies. If the values differ, why do you think this is so?

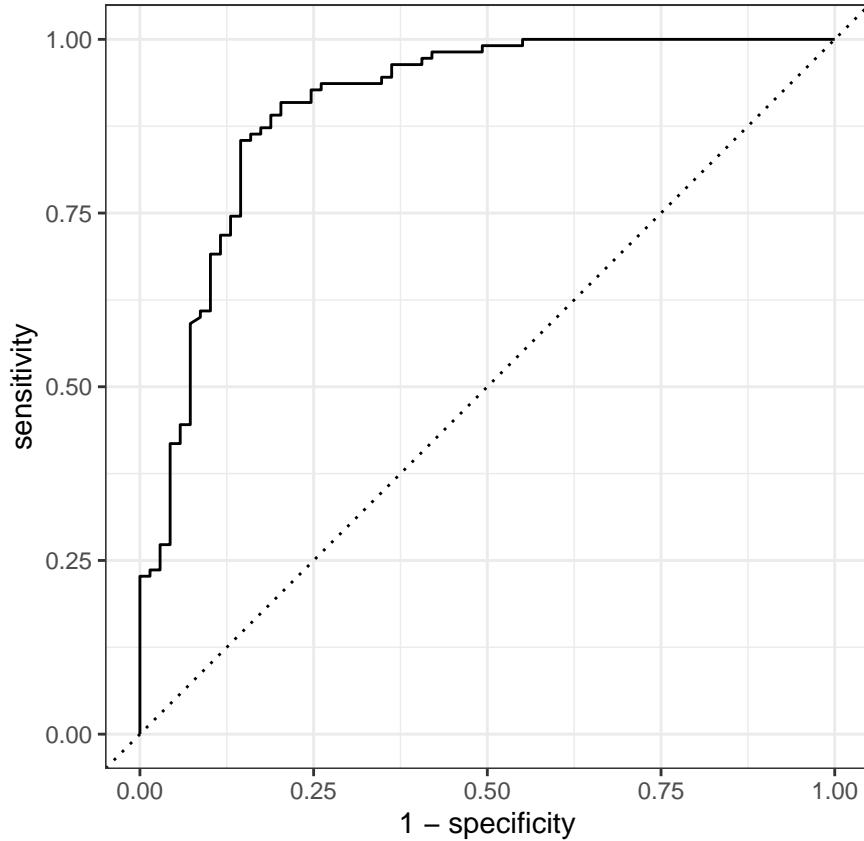
```
predict(log_fit, titanic_test)
```

```
## # A tibble: 179 x 1
##       .pred_class
##   <fct>
## 1 Yes
## 2 No
## 3 No
## 4 No
## 5 Yes
## 6 Yes
## 7 No
## 8 No
## 9 Yes
## 10 No
## # ... with 169 more rows
```

```
augment(log_fit, titanic_test) %>%
  conf_mat(truth = survived, estimate = .pred_class) %>%
  autoplot(type = "heatmap")
```



```
augment(log_fit, titanic_test) %>%
  roc_curve(survived, .pred_No) %>%
  autoplot()
```



Required for 231 Students

In a binary classification problem, let p represent the probability of class label 1, which implies that $1 - p$ represents the probability of class label 0. The *logistic function* (also called the “inverse logit”) is the cumulative distribution function of the logistic distribution, which maps a real number z to the open interval $(0, 1)$.

Question 11

Given that:

$$p(z) = \frac{e^z}{1 + e^z}$$

Prove that the inverse of a logistic function is indeed the *logit* function:

$$z(p) = \ln\left(\frac{p}{1 - p}\right)$$

Question 12

Assume that $z = \beta_0 + \beta_1 x_1$ and $p = \text{logistic}(z)$. How do the odds of the outcome change if you increase x_1 by two? Demonstrate this.

Assume now that β_1 is negative. What value does p approach as x_1 approaches ∞ ? What value does p approach as x_1 approaches $-\infty$?