Homework 3

PSTAT 131/231

Contents

Classification																				 				
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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.

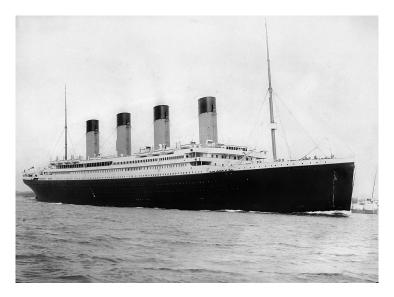


Figure 1: Fig. 1: RMS Titanic departing Southampton on April 10, 1912.

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!

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

library(tidyverse)
library(tidymodels)

```
library(rlang)
library(corrr)
library(klaR)
library(discrim)
library(poissonreg)
#library(ISLR) # For the Smarket data set
#library(ISLR2) # For the Bikeshare data set
tidymodels_prefer()
set.seed(22)
# Load Data
rawData <- read.csv("data/titanic.csv")</pre>
head(rawData)
##
     passenger_id survived pclass
## 1
                1
                        No
## 2
                2
                       Yes
                                1
## 3
                3
                       Yes
                                3
## 4
                4
                       Yes
                                1
## 5
                5
                        No
                                 3
## 6
                6
                        No
                                 3
##
                                                             sex age sib_sp parch
                                                     name
## 1
                                 Braund, Mr. Owen Harris
                                                            male 22
                                                                           1
## 2 Cumings, Mrs. John Bradley (Florence Briggs Thayer) female
                                                                                 0
## 3
                                  Heikkinen, Miss. Laina female
                                                                  26
                                                                           0
                                                                                 0
## 4
            Futrelle, Mrs. Jacques Heath (Lily May Peel) female
                                                                  35
                                                                           1
                                                                                 0
## 5
                                                            male 35
                                                                           0
                                                                                 0
                                 Allen, Mr. William Henry
## 6
                                         Moran, Mr. James
                                                                                 0
                                                            male NA
##
                         fare cabin embarked
               ticket
            A/5 21171 7.2500 <NA>
## 1
                                            S
## 2
            PC 17599 71.2833
                                C85
                                            С
## 3 STON/02. 3101282 7.9250 <NA>
                                            S
                                            S
## 4
               113803 53.1000 C123
## 5
               373450 8.0500 <NA>
                                            S
## 6
               330877 8.4583 <NA>
# Copy dataframe
data <- duplicate(rawData, shallow = FALSE)</pre>
#reorder factors
data$survived <- factor(data$survived, levels = c("Yes", "No"))</pre>
data$pclass <- factor(data$pclass)</pre>
data
##
       passenger_id survived pclass
## 1
                  1
                          No
## 2
                  2
                         Yes
                                   1
## 3
                  3
                         Yes
                                  3
## 4
                  4
                         Yes
                          No
                                  3
## 5
                  5
```

##	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
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##	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
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##	47	47	No	3
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##	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	56 57	Yes	2
##	58	58	No	3
##	59	50 59	Yes	2
##	JJ	09	162	2

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##	64	64	No	3
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##	66	66	Yes	3
	67	67		
##			Yes	2
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##	69	69	Yes	3
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##	71	71	No	2
##	72	72	No	3
##	73	73	No	2
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##	79	79	Yes	2
##	80	80	Yes	3
##	81	81	No	3
##	82	82	Yes	3
##	83	83	Yes	3
##	84	84		
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##	85	85	Yes	2
##	86	86	Yes	3
##	87	87	No	3
##	88	88	No	3
##	89	89	Yes	1
##	90	90	No	3
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##	97	97	No	1
##	98	98	Yes	1
##	99	99	Yes	2
##	100	100	No	2
##	101	101	No	3
##	101	101	No	3
##	103	103	No	1
##	104	104	No	3
##	105	105	No	3
##	106	106	No	3
##	107	107	Yes	3
##	108	108	Yes	3
##	109	109	No	3
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##	111	111	No	1
##	112	112	No	3
##	113	113	No	3

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##	116	116	No	3
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##	119	119	No	1
##	120	120	No	3
##	121	121	No	2
##	122	122	No	3
##	123	123	No	2
##	124	124	Yes	2
##	125	125	No	1
##	126	126	Yes	3
##	127	127	No	3
##	128	128	Yes	3
##	129	129	Yes	3
##	130	130	No	3
##	131	131	No	3
##	132	132	No	3
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##	134	134	Yes	2
##	135	135	No	2
##	136	136	No	2
##	137	137	Yes	1
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##	143	143	Yes	3
##	144	144	No	3
##	145	145	No	2
##	146	146	No	2
##	147	147	Yes	3
##	148	148	No	3
##	149	149	No	2
##	150	150	No	2
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##	153	153	No	3
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##	196	196	Yes	1
##	197	197	No	3
##	198	198	No	3
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##	201	201	No	3
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##	212	212	Yes	2
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##	576	576	No	3
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##	597	597	Yes	2
##	598	598	No	3
##	599	599	No	3

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##	604	604	No	3
##	605	605	Yes	1
##	606	606	No	3
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##	609	609	Yes	2
##	610	610	Yes	1
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##	617	617	No	3
##	618	618	No	3
##	619	619	Yes	2
##	620	620	No	2
##	621	621	No	3
##	622	622	Yes	1
##	623	623	Yes	3
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##	625	625	No	3
##	626	626	No	1
##	627	627	No	2
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##	630	630	No	3
##	631	631	Yes	1
##	632	632	No	3
##	633	633	Yes	1
##	634	634	No	1
##	635	635		3
##	636	636	No Yes	2
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## 78	3	783	No	1
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##	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
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##	864 865	864 865	No No	2
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##	866 867	866 867		2
##	867	867 868	Yes	
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##	869	869	No	3

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## 890
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                 891
                           No
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##
                                                                                          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. Lalio
## 31
                                                                     Uruchurtu, Don. Manuel E
```

870

870

Yes

3

	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 51	Arnold-Franchi, Mrs. Josef (Josefine Franchi)
	51 52	Panula, Master. Juha Niilo
	53	Nosworthy, Mr. Richard Cater
	54	Harper, Mrs. Henry Sleeper (Myna Haxtun)
	55	Faunthorpe, Mrs. Lizzie (Elizabeth Anne Wilkinson) 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
	211212	Ali, Mr. Ahmed Cameron, Miss. Clear Annie
	212	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
	240241	Hunt, Mr. George Henry Zabour, Miss. Thamine
	241	Murphy, Miss. Katherine "Kate"
	243	Coleridge, Mr. Reginald Charles
	244	Maenpaa, Mr. Matti Alexanteri
	245	Attalah, Mr. Sleiman
	246	Minahan, Dr. William Edward
	247	Lindahl, Miss. Agda Thorilda Viktoria
		, 3,

## 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 ## 265	Harrison, Mr. William
## 265 ## 266	Henry, Miss. Delia
## 267	Reeves, Mr. David Panula, Mr. Ernesti Arvid
## 268	Persson, Mr. Ernst Ulrik
## 269	Graham, Mrs. William Thompson (Edith Junkins)
## 203	Bissette, Miss. Amelia
## 270 ## 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 ## 207	Lewy, Mr. Ervin G
## 297 ## 208	Hanna, Mr. Mansour
## 298 ## 200	Allison, Miss. Helen Loraine
## 299 ## 300	Saalfeld, Mr. Adolphe Raytor, Mrs. James (Helene Delaydoniero Chaput)
## 300 ## 301	Baxter, Mrs. James (Helene DeLaudeniere Chaput) Kolly Miss. Appa Kathorina "Appie Kato"
## 301	Kelly, Miss. Anna Katherine "Annie Kate"

	302	McCoy, Mr. Bernard
	303	Johnson, Mr. William Cahoone Jr
	304	Keane, Miss. Nora A
	305	Williams, Mr. Howard Hugh "Harry"
	306	Allison, Master. Hudson Trevor
	307	Fleming, Miss. Margaret
		Penasco y Castellana, Mrs. Victor de Satode (Maria Josefa Perez de Soto y Vallejo)
	309 310	Abelson, Mr. Samuel
	311	Francatelli, Miss. Laura Mabel
	312	Hays, Miss. Margaret Bechstein
	313	Ryerson, Miss. Emily Borie 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 Edwart
	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 ## 303	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 ## 400	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
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	410	Lefebre, Miss. Ida
	411	Sdycoff, Mr. Todor
	412	Hart, Mr. Henry
	413	Minahan, Miss. Daisy E
	414	Cunningham, Mr. Alfred Fleming
	415 416	Sundman, Mr. Johan Julian
	417	Meek, Mrs. Thomas (Annie Louise Rowley) 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)
	442 443	Hampe, Mr. Leon
	444	Petterson, Mr. Johan Emil 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
	471 472	Keefe, Mr. Arthur
	473	Cacic, Mr. Luka 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
	493 494	Molson, Mr. Harry Markland
	495	Artagaveytia, Mr. Ramon 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)
	515 516	Coleff, Mr. Satio
	516 517	Walker, Mr. William Anderson Lemore, Mrs. (Amelia Milley)
##	011	Lemore, ris. (Ameria Milley)

	518	Ryan, Mr. Patrick
	519	Angle, Mrs. William A (Florence "Mary" Agnes Hughes)
	520	Pavlovic, Mr. Stefo
	521 522	Perreault, Miss. Anne
	523	Vovk, Mr. Janko 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 E41	Frolicher, Miss. Hedwig Margaritha
	541 542	Crosby, Miss. Harriet R Andersson, Miss. Ingeborg Constanzia
	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
	556 557	Wright, Mr. George
	557 558	Duff Gordon, Lady. (Lucille Christiana Sutherland) ("Mrs Morgan") Robbins Mr Victor
	559	Robbins, Mr. Victor 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	Murdlin, 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")
	601 602	Jacobsohn, Mrs. Sidney Samuel (Amy Frances Christy)
	603	Slabenoff, Mr. Petco 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
	634 635	Parr, Mr. William Henry Marsh
	636	Skoog, Miss. Mabel
	637	Davis, Miss. Mary 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
	666 667	Hickman, Mr. Lewis
	667 668	Butler, Mr. Reginald Fenton
	669	Rommetvedt, Mr. Knud Paust
	670	Cook, Mr. Jacob Taylor Mrs Elmar Zahlay (Juliat Cummins Wright)
	671	Taylor, Mrs. Elmer Zebley (Juliet Cummins Wright) 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)
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##	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")
	707 708	Kelly, Mrs. Florence "Fannie"
	709	Calderhead, Mr. Edward Pennington Cleaver, Miss. Alice
	710	Moubarek, Master. Halim Gonios ("William George")
	711	Mayne, Mile. 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	Troutt, Miss. Edwina Celia "Winnie"
	719	McEvoy, Mr. Michael
	720	Johnson, Mr. Malkolm 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

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## 734 ## 705	Berriman, Mr. William John
## 735 ## 736	Troupiansky, Mr. Moses Aaron
## 736 ## 737	Williams, Mr. Leslie
## 737 ## 738	Ford, Mrs. Edward (Margaret Ann Watson) 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	Stranden, 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 ## 750	Moor, Master. Meier
## 753 ## 754	Vande Velde, Mr. Johannes Joseph
## 754 ## 755	Jonkoff, Mr. Lalio
## 755 ## 756	Herman, Mrs. Samuel (Jane Laver)
## 750 ## 757	Hamalainen, Master. Viljo 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 ## 770	Moran, Mr. Daniel J
## 770 ## 771	Gronnestad, Mr. Daniel Danielsen
## 771 ## 772	Lievens, Mr. Rene Aime
## 772 ## 773	Jensen, Mr. Niels Peder Mack, Mrs. (Mary)
## 774	Elias, Mr. Dibo
## 775	Hocking, Mrs. Elizabeth (Eliza Needs)
## 776	Myhrman, Mr. Pehr Fabian Oliver Malkolm
## 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 ## 787	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
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## 842
                                                                   Mudd, Mr. Thomas Charles
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                                                                    Serepeca, Miss. Augusta
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                                                                 Lemberopolous, Mr. Peter L
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                                                                        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
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                                                                  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)
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                                                                           Razi, Mr. Raihed
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                                                                    Hansen, Mr. Claus Peter
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                                                                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
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                                                                van Melkebeke, Mr. Philemon
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                                                            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)
                                                                      Montvila, Rev. Juozas
## 887
## 888
                                                               Graham, Miss. Margaret Edith
## 889
                                                   Johnston, Miss. Catherine Helen "Carrie"
## 890
                                                                      Behr, Mr. Karl Howell
## 891
                                                                        Dooley, Mr. Patrick
##
                                              ticket
                                                                         cabin
          sex
                age sib_sp parch
                                                          fare
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         male 22.00
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                                                        7.9250
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		female			0	0	11767		1583			C54
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	327	male			0	0	345364		2375			<na></na>
##	021	шате	01.	50	U	U	040004	0.	2010			/N M/

##	200	female	26 00	^	^	28551	12 0000	D
		female		0	0		13.0000	D <na></na>
##		female		1	1	363291 111361	20.5250 57.9792	B18
		female		2				
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##	339		45.00	0	0	7598	8.0500	<na></na>
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##	341	male	2.00	1	1	230080	26.0000	F2
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##	598	mol o	40.00	0	^	ITME	0 0000	∠M A >
##	599	male	49.00 NA	0	0	LINE 2664	0.0000 7.2250	<na></na>
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## ##	683 684 685	male male	20.00		2 1	CA 2144 29750		
## ##	683 684 685 686	male male male	20.00 14.00 60.00 25.00	5	2	CA 2144	46.9000 39.0000 41.5792	<na> <na> <na></na></na></na>
## ## ## ##	683 684 685 686 687	male male male male	20.00 14.00 60.00 25.00 14.00	5 1	2 1	CA 2144 29750 SC/Paris 2123 3101295	46.9000 39.0000 41.5792 39.6875	<na> <na> <na> <na></na></na></na></na>
## ## ## ##	683 684 685 686	male male male male male	20.00 14.00 60.00 25.00 14.00 19.00	5 1 1	2 1 2	CA 2144 29750 SC/Paris 2123	46.9000 39.0000 41.5792 39.6875 10.1708	<na> <na> <na></na></na></na>
## ## ## ## ##	683 684 685 686 687 688 689	male male male male male male	20.00 14.00 60.00 25.00 14.00 19.00 18.00	5 1 1 4 0	2 1 2 1 0 0	CA 2144 29750 SC/Paris 2123 3101295 349228 350036	46.9000 39.0000 41.5792 39.6875 10.1708 7.7958	<na> <na> <na> <na> <na> <na></na></na></na></na></na></na>
## ## ## ## ## ##	683 684 685 686 687 688 689 690	male male male male male male female	20.00 14.00 60.00 25.00 14.00 19.00 18.00	5 1 1 4 0 0	2 1 2 1 0 0	CA 2144 29750 SC/Paris 2123 3101295 349228 350036 24160	46.9000 39.0000 41.5792 39.6875 10.1708 7.7958 211.3375	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
## ## ## ## ## ##	683 684 685 686 687 688 689 690	male male male male male male male male	20.00 14.00 60.00 25.00 14.00 19.00 18.00 31.00	5 1 1 4 0 0 0	2 1 2 1 0 0 1	CA 2144 29750 SC/Paris 2123 3101295 349228 350036 24160 17474	46.9000 39.0000 41.5792 39.6875 10.1708 7.7958 211.3375 57.0000	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
## ## ## ## ## ##	683 684 685 686 687 688 689 690 691	male male male male male male male male	20.00 14.00 60.00 25.00 14.00 19.00 18.00 15.00 31.00 4.00	5 1 1 4 0 0 0 1	2 1 2 1 0 0 1 0	CA 2144 29750 SC/Paris 2123 3101295 349228 350036 24160 17474 349256	46.9000 39.0000 41.5792 39.6875 10.1708 7.7958 211.3375 57.0000 13.4167	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
## ## ## ## ## ## ##	683 684 685 686 687 688 689 690 691 692	male male male male male male male female female female female	20.00 14.00 60.00 25.00 14.00 19.00 18.00 31.00 4.00 NA	5 1 1 4 0 0 0 1 0	2 1 2 1 0 0 1 0 1	CA 2144 29750 SC/Paris 2123 3101295 349228 350036 24160 17474 349256 1601	46.9000 39.0000 41.5792 39.6875 10.1708 7.7958 211.3375 57.0000 13.4167 56.4958	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
## ## ## ## ## ## ##	683 684 685 686 687 688 690 691 692 693 694	male male male male male male male female female female male male	20.00 14.00 60.00 25.00 14.00 19.00 18.00 31.00 4.00 NA 25.00	5 1 1 4 0 0 0 0 1 0 0	2 1 2 1 0 0 1 0 1 0	CA 2144 29750 SC/Paris 2123 3101295 349228 350036 24160 17474 349256 1601 2672	46.9000 39.0000 41.5792 39.6875 10.1708 7.7958 211.3375 57.0000 13.4167 56.4958 7.2250	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
## ## ## ## ## ## ##	683 684 685 686 687 688 690 691 692 693 694 695	male male male male male male male female male female male male	20.00 14.00 60.00 25.00 14.00 19.00 15.00 31.00 4.00 NA 25.00 60.00	5 1 1 4 0 0 0 1 0 0 0	2 1 2 1 0 0 1 0 1 0 0	CA 2144 29750 SC/Paris 2123 3101295 349228 350036 24160 17474 349256 1601 2672 113800	46.9000 39.0000 41.5792 39.6875 10.1708 7.7958 211.3375 57.0000 13.4167 56.4958 7.2250 26.5500	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
## ## ## ## ## ## ## ##	683 684 685 686 687 688 690 691 692 693 694 695 696	male male male male male male female male female male male male male	20.00 14.00 60.00 25.00 14.00 19.00 15.00 31.00 4.00 NA 25.00 60.00 52.00	5 1 1 4 0 0 0 1 0 0 0 0	2 1 2 1 0 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0	CA 2144 29750 SC/Paris 2123 3101295 349228 350036 24160 17474 349256 1601 2672 113800 248731	46.9000 39.0000 41.5792 39.6875 10.1708 7.7958 211.3375 57.0000 13.4167 56.4958 7.2250 26.5500 13.5000	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
## ## ## ## ## ## ## ## ## ## ## ## ##	683 684 685 686 687 688 690 691 692 693 694 695 696 697	male male male male male male male female female male male male male male	20.00 14.00 60.00 25.00 14.00 19.00 15.00 31.00 4.00 NA 25.00 60.00 52.00 44.00	5 1 1 4 0 0 0 0 1 0 0 0 0 0 0	2 1 2 1 0 0 1 0 1 0 0 0 1 0 0 0 0 0 0 0	CA 2144 29750 SC/Paris 2123 3101295 349228 350036 24160 17474 349256 1601 2672 113800 248731 363592	46.9000 39.0000 41.5792 39.6875 10.1708 7.7958 211.3375 57.0000 13.4167 56.4958 7.2250 26.5500 13.5000 8.0500	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
######################################	683 684 685 686 687 688 690 691 692 693 694 695 696 697 698	male male male male male male male female male female male male male male male	20.00 14.00 60.00 25.00 14.00 19.00 18.00 31.00 4.00 NA 25.00 60.00 52.00 44.00 NA	5 1 1 4 0 0 0 1 0 0 0 0 0 0 0 0	2 1 2 1 0 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0	CA 2144 29750 SC/Paris 2123 3101295 349228 350036 24160 17474 349256 1601 2672 113800 248731 363592 35852	46.9000 39.0000 41.5792 39.6875 10.1708 7.7958 211.3375 57.0000 13.4167 56.4958 7.2250 26.5500 13.5000 8.0500 7.7333	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
######################################	683 684 685 686 687 688 690 691 692 693 694 695 696 697 698 699	male male male male male male female female male male male male male male male	20.00 14.00 60.00 25.00 14.00 19.00 18.00 31.00 4.00 NA 25.00 60.00 52.00 44.00 NA 49.00	5 1 1 4 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	2 1 2 1 0 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0	CA 2144 29750 SC/Paris 2123 3101295 349228 350036 24160 17474 349256 1601 2672 113800 248731 363592 35852 17421	46.9000 39.0000 41.5792 39.6875 10.1708 7.7958 211.3375 57.0000 13.4167 56.4958 7.2250 26.5500 13.5000 8.0500 7.7333 110.8833	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
######################################	683 684 685 686 687 688 690 691 692 693 694 695 696 697 698 699 700	male male male male male male male female female male male male male male male male	20.00 14.00 60.00 25.00 14.00 19.00 15.00 31.00 4.00 NA 25.00 60.00 52.00 44.00 NA 49.00 42.00	5 1 1 4 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	2 1 2 1 0 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0	CA 2144	46.9000 39.0000 41.5792 39.6875 10.1708 7.7958 211.3375 57.0000 13.4167 56.4958 7.2250 26.5500 13.5000 8.0500 7.7333 110.8833 7.6500	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
######################################	683 684 685 686 687 688 690 691 692 693 694 695 696 697 698 699 700 701	male male male male male male female male female male male male male male female female	20.00 14.00 60.00 25.00 14.00 19.00 15.00 31.00 4.00 NA 25.00 60.00 52.00 44.00 NA 49.00 42.00 18.00	5 1 1 4 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	2 1 2 1 0 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0	CA 2144	46.9000 39.0000 41.5792 39.6875 10.1708 7.7958 211.3375 57.0000 13.4167 56.4958 7.2250 26.5500 13.5000 8.0500 7.7333 110.8833 7.6500 227.5250	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
########################	683 684 685 686 687 688 690 691 692 693 694 695 696 697 698 699 700 701 702	male male male male male male male female male male male male male male male	20.00 14.00 60.00 25.00 14.00 19.00 18.00 31.00 4.00 NA 25.00 60.00 52.00 44.00 NA 49.00 42.00 18.00 35.00	5 1 1 4 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	2 1 2 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	CA 2144	46.9000 39.0000 41.5792 39.6875 10.1708 7.7958 211.3375 57.0000 13.4167 56.4958 7.2250 26.5500 13.5000 8.0500 7.7333 110.8833 7.6500 227.5250 26.2875	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
# # # # # # # # # # # # # # # # # # #	683 684 685 686 687 688 690 691 692 693 694 695 696 697 698 699 700 701 702 703	male male male male male male male female male female male male male male male female male female female	20.00 14.00 60.00 25.00 14.00 19.00 18.00 31.00 4.00 NA 25.00 60.00 52.00 44.00 NA 49.00 42.00 18.00 35.00 18.00	5 1 1 4 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	2 1 2 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	CA 2144	46.9000 39.0000 41.5792 39.6875 10.1708 7.7958 211.3375 57.0000 13.4167 56.4958 7.2250 26.5500 13.5000 8.0500 7.7333 110.8833 7.6500 227.5250 26.2875 14.4542	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
#######################################	683 684 685 686 687 688 690 691 692 693 694 695 696 697 698 699 700 701 702	male male male male male male male female female male male male male male female female male female male female	20.00 14.00 60.00 25.00 14.00 19.00 18.00 31.00 4.00 NA 25.00 60.00 52.00 44.00 NA 49.00 42.00 18.00 35.00	5 1 1 4 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	2 1 2 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	CA 2144	46.9000 39.0000 41.5792 39.6875 10.1708 7.7958 211.3375 57.0000 13.4167 56.4958 7.2250 26.5500 13.5000 8.0500 7.7333 110.8833 7.6500 227.5250 26.2875	<na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>

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## 29
               Q
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##	560 561	S
##	561	Q
##	562 563	S
##	563	S
##	564	S
##	565	S
##	566	S
##	567	S
##	568	S
##	569	С

##	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	S
##	586 587	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
##	608 609	S 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

	001	~
##	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	5 S
##	675	S
	676	S
##		S
##	677	۵

## ## ##	678 679 680	S S C
##	681	Q
##	682	C
##	683	S
##	684	S
##	685	S
##	686 687	C S
##	688	S
##	689	S
##	690	S
##	691	S
##	692	C
##	693	S
##	694	C
##	695	S
##	696	S
##	697	S
##	698	Q
##	699	С
##	700	S
##	701	С
##	702	S
##	703	С
##	704	Q
##	705	Q s s s s s
##	706	S
##	707	S
##	708	S
##	709	S
##	710	C
##	711	C S
## ##	712 713	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
## ##	749 750	S
##	751	ų c
##	752	2
##	753	S
##	754	S
##	755	S
##	756	S
##	757	S
##	758	S
##	759	Q S S S S S S S S S S S S S S S S S S 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 S
## ##	776 777	
##	778	Q S
##	779	Q Q
##	780	S 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
##	806 807	S S
##	808	s 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
##	830 831	<na></na>
##		S
##	832 833	S C
##	834	S
##	835	S
##	836	C
##	837	S
##	838	S
##	839	S
		~

## 840			
## 842	##	840	
## 844	##	841	
## 844	##	842	
## 845	##	843	
## 846	##	844	
## 847	##	845	
## 848	##	846	
## 849	##	847	
## 850	##	848	
## 851	##	849	
## 852	##		
## 853	##		
## 854	##		
## 855	##	853	
## 856	##	854	
## 857	##	855	
## 858	##	856	
## 859 CC ## 860 CC ## 861 SC ## 862 SC ## 865 SC ## 866 SC ## 867 CC ## 870 SC ## 871 SC ## 871 SC ## 872 SC ## 873 SC ## 874 SC ## 875 SC ## 876 SC ## 877 SC ## 877 SC ## 878 SC ## 879 SC ## 879 SC ## 881 SC ## 881 SC ## 882 SC ## 883 SC ## 884 SC \$C ## 887 SC \$C \$C ## 887 \$C	##	857	S
## 860 CC ## 861 S	##	858	
## 861	##	859	
## 862	##	860	
## 863	##	861	S
## 864 S ## 865 S ## 866 S ## 867 C ## 868 S ## 869 S ## 871 S ## 872 S ## 873 S ## 874 S ## 875 C ## 875 C ## 877 S ## 878 S ## 879 S ## 880 C ## 881 S ## 882 S ## 884 S ## 884 S ## 885 S ## 886 Q ## 887 S ## 888 S ## 889 S ## 889 S	##	862	S
## 865 S ## 866 S ## 867 C ## 868 S ## 870 S ## 871 S ## 872 S ## 872 S ## 874 S ## 875 C ## 877 S ## 877 S ## 878 S ## 880 C ## 881 S ## 882 S ## 883 S ## 884 S ## 885 S ## 886 Q ## 887 S ## 888 S ## 889 S ## 889 S	##	863	S
## 866	##	864	S
## 867	##	865	
## 868 S ## 869 S ## 870 S ## 871 S ## 872 S ## 873 S ## 874 S ## 875 C ## 876 C ## 877 S ## 878 S ## 880 C ## 881 S ## 882 S ## 883 S ## 884 S ## 885 S ## 886 Q ## 887 S ## 888 S ## 889 S ## 889 S	##	866	
## 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 ## 884 S ## 885 S ## 886 Q ## 887 S ## 888 S ## 889 S ## 889 S	##	867	
## 870 S ## 871 S ## 872 S ## 873 S ## 874 S ## 875 C ## 876 C ## 877 S ## 878 S ## 880 C ## 881 S ## 882 S ## 883 S ## 884 S ## 885 S ## 886 Q ## 887 S ## 888 S ## 889 S ## 889 S	##	868	
## 871 S ## 872 S ## 873 S ## 874 S ## 875 C ## 876 C ## 877 S ## 878 S ## 880 C ## 881 S ## 882 S ## 883 S ## 884 S ## 885 S ## 886 Q ## 887 S ## 888 S ## 889 S ## 889 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 ## 889 S	##	870	
## 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	##	871	
## 874	##		
## 875 CC ## 876 CC ## 877 SC ## 877 SC ## 879 SC ## 881 SC ## 882 SC ## 883 SC ## 885 SC ## 886 SC ## 887 SC ## 888 SC ## 889 SC ## 889 SC ## 890 CC ## 890	##		
## 876 CC ## 877 SS ## 878 SS ## 879 SS ## 880 CC ## 881 SS ## 882 SS ## 883 SS ## 884 SS ## 885 SS ## 886 QG ## 887 SS ## 888 SS ## 889 SS ## 890 CC	##		
## 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	##		
## 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	##		
## 879 S ## 880 C ## 881 S ## 882 S ## 883 S ## 884 S ## 885 S ## 886 Q ## 887 S ## 888 S ## 889 S ## 890 C			
## 880 CC ## 881 S ## 882 S ## 884 S ## 886 Q ## 887 S ## 888 S ## 889 S ## 890 CC	##		
## 881 S ## 882 S ## 883 S ## 884 S ## 885 S ## 886 Q ## 887 S ## 888 S ## 889 S ## 890 C	##	879	
## 882 S ## 883 S ## 884 S ## 885 S ## 886 Q ## 887 S ## 888 S ## 889 S ## 890 C	##		
## 883 S ## 884 S ## 885 S ## 886 Q ## 887 S ## 888 S ## 889 S	##		
## 884 S ## 885 S ## 886 Q ## 887 S ## 888 S ## 889 S	##		
## 885 S ## 886 Q ## 887 S ## 888 S ## 889 S	##		
## 886 Q ## 887 S ## 888 S ## 889 S			
## 887 S ## 888 S ## 889 S ## 890 C	##		
## 888 S ## 889 S ## 890 C	##		
## 889 S ## 890 C	##		
## 890 C			
## 891 Q			
	##	891	Q

```
levels(data$survived)
## [1] "Yes" "No"
levels(data$pclass)
## [1] "1" "2" "3"
```

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.

```
## [1] 179 12
```

dim(dataTrain)

[1] 712 12

head(data)

```
passenger_id survived pclass
##
## 1
                 1
                         No
## 2
                 2
                        Yes
                                  1
## 3
                 3
                        Yes
                                  3
## 4
                 4
                        Yes
                                  1
## 5
                 5
                                  3
                         No
## 6
                 6
                         No
                                  3
##
                                                                sex age sib_sp parch
## 1
                                   Braund, Mr. Owen Harris
                                                               male
                                                                     22
                                                                              1
## 2 Cumings, Mrs. John Bradley (Florence Briggs Thayer) female
                                                                              1
                                                                                     0
                                                                              0
                                                                                    0
## 3
                                    Heikkinen, Miss. Laina female
                                                                     26
## 4
            Futrelle, Mrs. Jacques Heath (Lily May Peel) female
                                                                              1
                                                                                    0
## 5
                                  Allen, Mr. William Henry
                                                                              0
                                                               {\tt male}
                                                                     35
                                                                                    0
## 6
                                          Moran, Mr. James
                                                               male
                                                                              0
                                                                                     0
##
                ticket
                          fare cabin embarked
## 1
            A/5 21171 7.2500
                                <NA>
                                              S
                                              С
             PC 17599 71.2833
## 2
                                  C85
```

```
## 3 STON/O2. 3101282 7.9250 <NA>
                                             S
## 4
                113803 53.1000
                                             S
                                C123
## 5
                                             S
               373450 8.0500
                                 <NA>
               330877 8.4583
## 6
                                <NA>
                                             Q
# Return number of survived and did not
count(data, survived)
##
     survived
## 1
          Yes 342
## 2
           No 549
#look at the training data, check for missing values
na_count <-sapply(data, function(y) sum(is.na(y)))</pre>
na_count
## passenger_id
                     survived
                                     pclass
                                                                    sex
                                                     name
                                                                                  age
##
              0
                            0
                                          0
                                                        0
                                                                      0
                                                                                  177
##
                        parch
                                     ticket
                                                     fare
                                                                             embarked
         sib_sp
                                                                  cabin
##
              0
                                                                    687
                                                                                    2
data
##
       passenger_id survived pclass
## 1
                   1
                           No
## 2
                   2
                          Yes
                                    1
## 3
                   3
                                    3
                          Yes
## 4
                   4
                          Yes
                                    1
## 5
                   5
                                    3
                           No
## 6
                   6
                                    3
                           No
                   7
## 7
                           No
                                    1
## 8
                   8
                           No
                                    3
## 9
                   9
                          Yes
                                    3
## 10
                  10
                          Yes
                                    2
## 11
                          Yes
                                    3
                  11
## 12
                  12
                          Yes
                                    1
## 13
                  13
                           No
                                    3
                           No
                                    3
## 14
                  14
## 15
                  15
                           No
                                    3
                                    2
## 16
                          Yes
                  16
## 17
                  17
                           No
                                    3
                                    2
## 18
                  18
                          Yes
## 19
                  19
                           No
                                    3
                                    3
## 20
                  20
                          Yes
## 21
                  21
                           No
                                    2
                                    2
## 22
                  22
                          Yes
                                    3
## 23
                  23
                          Yes
```

Yes

No

Yes

No

No

24

25

26

27

28

1

3

3

3

1

24

25

26

27

28

##	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
##				3
	69	69	Yes	
##	70	70	No	3
##	71	71	No	2
##	72	72	No	3
##	73	73	No	2
##	74	74	No	3
##	75	75	Yes	3
##	76	76	No	3
##	77	77	No	3
##	78	78	No	3
##	79	79	Yes	2
##	80	80	Yes	3
##	81	81	No	3
##	82	82	Yes	3
17 117	U L	J2	100	J

## 83	83	Yes	3
## 84	84	No	1
## 85	85	Yes	2
## 86	86	Yes	3
## 87	87	No	3
## 88	88	No	3
## 89	89	Yes	1
## 90	90	No	3
## 91	91	No	3
## 92	92	No	3
## 93	93	No	1
## 94	94	No	3
## 95	95	No	3
## 96	96	No	3
## 97	97	No	1
## 98	98	Yes	1
## 99	99	Yes	2
## 100	100	No	2
## 101	101	No	3
## 102	102	No	3
## 103	103	No	1
## 104	104	No	3
## 105	105	No	3
## 106	106	No	3
## 107	107	Yes	3
## 108	108	Yes	3
## 109	109	No	3
## 110	110	Yes	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
## 117	117	No	3
## 118	118	No	2
## 119	119	No	1
## 120	120	No	3
## 121	121	No	2
## 122	122	No	3
## 123	123	No	2
## 124	124	Yes	2
## 125	125	No	1
## 126	126	Yes	3
## 127	127	No	3
## 128	128	Yes	3
## 129	129	Yes	3
## 130	130	No	3
## 131	131	No	3
## 132	132	No	3
## 133	133	No	3
## 134	134	Yes	2
## 135	135	No	2
## 136	136	No	2

	4.07	4.07	**	
##	137	137	Yes	1
##	138	138	No	1
##	139	139	No	3
##	140	140	No	1
##	141	141	No	3
##	142	142	Yes	3
##	143	143	Yes	3
##	144	144	No	3
##	145	145	No	2
##	146	146	No	2
##	147	147	Yes	3
##	148	148	No	3
##	149	149	No	2
##	150	150	No	2
##	151	151	No	2
##	152	152	Yes	1
##	153	153	No	3
##	154	154	No	3
	155			
##		155	No	3
##	156	156	No	1
##	157	157	Yes	3
##	158	158	No	3
##	159	159	No	3
##	160	160	No	3
##	161	161	No	3
##	162	162	Yes	2
##	163	163	No	3
##	164	164	No	3
##	165	165	No	3
##	166	166	Yes	3
##	167			1
		167	Yes	
##	168	168	No	3
##	169	169	No	1
##	170	170	No	3
##	171	171	No	1
##	172	172	No	3
##	173	173	Yes	3
##	174	174	No	3
##	175	175	No	1
##	176	176	No	3
##	177	177	No	3
##	178	178	No	1
##	179	179	No	2
##	180	180	No	3
##	181	181	No	3
##	182	182	No	2
##	183	183	No	3
##	184	184	Yes	2
##	185	185	Yes	3
##	186	186	No	1
##	187	187	Yes	3
##	188	188	Yes	1
##	189	189	No	3
##	190	190	No	3

##	191	191	Yes	2
##	192	192	No	2
##	193	193	Yes	3
##	194	194	Yes	2
##	195	195	Yes	1
##	196	196	Yes	1
##	197	197	No	3
##	198	198	No	3
##	199	199	Yes	3
##	200	200	No	2
##	201	201	No	3
##	202	202	No	3
##	203	203	No	3
##		204		3
	204		No	
##	205	205	Yes	3
##	206	206	No	3
##	207	207	No	3
##	208	208	Yes	3
##	209	209	Yes	3
##	210	210	Yes	1
##	211	211	No	3
##	212	212	Yes	2
##	213	213	No	3
##	214	214	No	2
##	215	215	No	3
##	216	216	Yes	1
##	217	217	Yes	3
##	218	218	No	2
##	219	219	Yes	1
##	220	220	No	2
##	221	221	Yes	3
##	222	222	No	2
##	223	223	No	3
##	224	224	No	3
##	225	225	Yes	1
##	226	226	No	3
##	227	227	Yes	2
				_
##	228	228	No No	3
##	229	229	No	2
##	230	230	No	3
##	231	231	Yes	1
##	232	232	No	3
##	233	233	No	2
##	234	234	Yes	3
##	235	235	No	2
##	236	236	No	3
##	237	237	No	2
##	238	238	Yes	2
##	239	239	No	2
##	240	240	No	2
##	241	241	No	3
##	242	242	Yes	3
##	243	243	No No	2
##	244	244	No	3

## 245	245	No	3
## 246	246	No	1
## 247	247	No	3
## 248	248	Yes	2
## 249	249	Yes	1
## 250	250	No	2
## 251	251	No	3
## 252	252	No	3
## 253	253	No	1
## 254	254	No	3
## 255	255	No	3
## 256	256	Yes	3
## 257	257	Yes	1
## 258	258	Yes	1
## 259	259	Yes	1
## 260	260	Yes	2
## 261	261	No	3
## 262	262	Yes	3
## 263	263	No	1
## 264	264	No	1
## 265	265	No	3
## 266	266	No	2
## 267	267	No	3
## 268	268	Yes	3
## 269	269	Yes	1
## 270	270	Yes	1
## 271	271	No	1
## 272	272	Yes	3
## 273	273	Yes	2
## 274	274	No	1
## 275	275	Yes	3
## 276	276	Yes	1
## 277	277	No	3
## 278	278	No	2
## 279	279	No	3
## 280	280	Yes	3
## 281	281	No	3
## 282	282	No	3
## 283	283	No	3
## 284	284	Yes	3
## 285	285	No	1
## 286	286	No	3
## 287	287	Yes	3
## 288	288	No	3
## 289	289	Yes	2
## 290	290	Yes	3
## 290 ## 291	290	Yes	1
## 291 ## 292	291 292	Yes	1
## 292 ## 293	292 293	No	2
			3
	294 295	No No	
	295 296	No No	3 1
## 296 ## 297	296 297	No No	
## 297	297	No No	3
## 298	298	No	1

##	299	299	Yes	1
##	300	300	Yes	1
##	301	301	Yes	3
##	302	302	Yes	3
##	303	303	No	3
##	304	304	Yes	2
##	305	305	No	3
##	306	306	Yes	1
##	307	307	Yes	1
##	308	308	Yes	1
##	309	309	No	2
##	310	310	Yes	1
##	311	311	Yes	1
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name

##		Braund, Mr. Owen Harris
##		Cumings, Mrs. John Bradley (Florence Briggs Thayer)
##		Heikkinen, Miss. Laina
##		Futrelle, Mrs. Jacques Heath (Lily May Peel)
##		Allen, Mr. William Henry
##		Moran, Mr. James
##		McCarthy, Mr. Timothy J
##		Palsson, Master. Gosta Leonard
##		Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)
	10	•
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	19	9
##	20	
##	21	Fynney, Mr. Joseph J
##	22	Beesley, Mr. Lawrence
##	23	McGowan, Miss. Anna "Annie"
##	24	Sloper, Mr. William Thompson
##	25	, ,
##	26	
	27	,
	28	•
	29	,
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##	41	
##	42	
##	43	Kraeff, Mr. Theodor
##	44	Laroche, Miss. Simonne Marie Anne Andree
##	45	Devaney, Miss. Margaret Delia
	46	g ·
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	49	
	50	•
	51	
	52	Nosworthy, Mr. Richard Cater
##		· ·
##	53 54	Harper, Mrs. Henry Sleeper (Myna Haxtun)

##	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. Dertram Frank
	96	Shorney, Mr. Charles Joseph
	97	Goldschmidt, Mr. George B
	98	Greenfield, Mr. William Bertram
	99	Doling, Mrs. John T (Ada Julia Bone)
	100	
	101	Petranec, Miss. Matilda
	101	
	103	·
	103	
	104	Gustafsson, Mr. Gustaf Joer Gustafsson, Mr. Anders Vilhelm
	105	Mionoff, Mr. Stoytcho
	107	Salkjelsvik, Miss. Anna Kristine
ππ	101	
##	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 ## 110	Connors, Mr. Patrick
## 118 ## 110	Turpin, Mr. William John Robert
## 119 ## 120	Baxter, Mr. Quigg Edmond
## 120 ## 121	Andersson, Miss. Ellis Anna Maria Hickman, Mr. Stanley George
## 121 ## 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 ## 142	Boulos, Mrs. Joseph (Sultana) Nysten, Miss. Anna Sofia
## 142 ## 143	Hakkarainen, Mrs. Pekka Pietari (Elin Matilda Dolck)
## 143 ## 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 ## 171	Ling, Mr. Lee
## 171 ## 170	Van der hoef, Mr. Wyckoff
## 172 ## 173	Rice, Master. Arthur Johnson, Miss. Eleanor Ileen
## 173 ## 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 ## 105	Navratil, Master. Michel M
## 195 ## 106	Brown, Mrs. James Joseph (Margaret Tobin)
## 196 ## 197	Lurette, Miss. Elise
## 197 ## 198	Mernagh, Mr. Robert 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 Alexanteri
##	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
	273274	Mellinger, Mrs. (Elizabeth Anne Maidment)
	275	Natsch, Mr. Charles H 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
	295 296	Mineff, Mr. Ivan 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 Cahoone Jr
##	304	Keane, Miss. Nora A
##	305	Williams, Mr. Howard Hugh "Harry"
##	306	Allison, Master. Hudson Trevor
##	307	Fleming, Miss. Margaret
		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
	315 316	Hart, Mr. Benjamin 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 Edwart
##	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 ## 301	Lehmann, Miss. Bertha
## 391 ## 392	Carter, Mr. William Ernest
## 392 ## 393	Jansson, Mr. Carl Olof
## 393 ## 394	Gustafsson, Mr. Johan Birger
## 39 1 ## 395	Newell, Miss. Marjorie Sandstrom, Mrs. Hjalmar (Agnes Charlotta Bengtsson)
## 396	Johansson, Mr. Erik
## 390 ## 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 ## 422	Gheorgheff, Mr. Stanio
## 422	Charters, Mr. David
## 423 ## 424	Zimmerman, Mr. Leo
## 424 ## 425	Danbom, Mrs. Ernst Gilbert (Anna Sigrid Maria Brogren)
## 425 ## 426	Rosblom, Mr. Viktor Richard
## 426 ## 427	Wiseman, Mr. Phillippe Clarko Mrs. Charles V (Ada Maria Hinfield)
## 427 ## 428	Clarke, Mrs. Charles V (Ada Maria Winfield) Phillips Miss Kata Florence ("Mrs Kata Louise Phillips Marshall")
## 428 ## 429	Phillips, Miss. Kate Florence ("Mrs Kate Louise Phillips Marshall")
## 429 ## 430	Flynn, Mr. James Pickard, Mr. Berk (Berk Trembisky)
## 430 ## 431	Bjornstrom-Steffansson, Mr. Mauritz Hakan
## 431 ## 432	Thorneycroft, Mrs. Percival (Florence Kate White)
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##	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
ππ	100	Leteble, MISS. Jedinite

	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
	522 523	Vovk, Mr. Janko
		Lahoud, Mr. Sarkis
	524	Hippach, Mrs. Louis Albert (Ida Sophia Fischer)
	525 526	Kassem, Mr. Fared Farrell, Mr. James
	527	
	52 <i>1</i> 528	Ridsdale, Miss. Lucy 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	
	538	Butt, Major. Archibald Willingham LeRoy, Miss. Bertha
	539	Risien, Mr. Samuel Beard
	540	
##	040	Frolicher, Miss. Hedwig Margaritha

## 541	Crosby, Miss. Harriet R
## 542	Andersson, Miss. Ingeborg Constanzia
## 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 ## 550	Robbins, Mr. Victor
## 559 ## 560	Taussig, Mrs. Emil (Tillie Mandelbaum)
## 560 ## 561	de Messemaeker, Mrs. Guillaume Joseph (Emma)
## 561 ## 562	Morrow, Mr. Thomas Rowan
## 563	Sivic, Mr. Husein 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 ## 500	Gilinski, Mr. Eliezer
## 590 ## 501	Murdlin, Mr. Joseph
## 591 ## 502	Rintamaki, Mr. Matti
## 592 ## 593	Stephenson, Mrs. Walter Bertram (Martha Eustis)
## 593 ## 594	Elsbury, Mr. William James
ππ ∪ <i>0</i> ±	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
	629 630	Bostandyeff, Mr. Guentcho
	631	O'Connell, Mr. Patrick D
		Barkworth, Mr. Algernon Henry Wilson
	632	Lundahl, Mr. Johan Svensson
	633 634	Stahelin-Maeglin, Dr. Max
	635	Parr, Mr. William Henry Marsh Skoog, Miss. Mabel
	636	<u> </u>
	637	Davis, Miss. Mary 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, Mile. 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
##	0+0	Dimonius Diumei, Coi. Obelst Allons

	649	Willey, Mr. Edward
	650	Stanley, Miss. Amy Zillah Elsie
	651	Mitkoff, Mr. Mito
	652	Doling, Miss. Elsie
	653	Kalvik, Mr. Johannes Halvorsen
	654 655	O'Leary, Miss. Hanora "Norah"
	655	Hegarty, Miss. Hanora "Nora"
	656 657	Hickman, Mr. Leonard Mark
	658	Radeff, Mr. Alexander 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
	696 697	Chapman, Mr. Charles Henry
	697 698	Kelly, Mr. James Mullens, Miss. Katherine "Katie"
	699	
	700	Thayer, Mr. John Borland Humblen, Mr. Adolf Mathias Nicolai Olsen
	700	Astor, Mrs. John Jacob (Madeleine Talmadge Force)
	701	Silverthorne, Mr. Spencer Victor
##	102	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	Troutt, Miss. Edwina Celia "Winnie"
##	719	McEvoy, Mr. Michael
##	720	Johnson, Mr. Malkolm 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	Stranden, Mr. Juho
	746	Crosby, Capt. Edward Gifford
	747	Abbott, Mr. Rossmore Edward
	748	
	749	Sinkkonen, Miss. Anna Maryin Mr Daniel Warner
		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. Lalio
	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
	766 767	Hogeboom, Mrs. John C (Anna Andrews)
	768	Brewe, Dr. Arthur Jackson 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 Malkolm
##	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"
	792 793	Gaskell, Mr. Alfred
	794	Sage, Miss. Stella Anna
	795	Hoyt, Mr. William Fisher 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 ## 815	Andersson, Miss. Ebba Iris Alfrida
## 815 ## 816	Tomlin, Mr. Ernest Portage
## 817	Fry, Mr. Richard 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 ## 836	Allum, Mr. Owen George
## 836 ## 837	Compton, Miss. Sara Rebecca 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 ## 055	Lines, Miss. Mary Conover
## 855 ## 85 <i>6</i>	Carter, Mrs. Ernest Courtenay (Lilian Hughes)
## 856 ## 057	Aks, Mrs. Sam (Leah Rosen)
## 857 ## 050	Wick, Mrs. George Dennick (Mary Hitchcock)
## 858 ## 850	Daly, Mr. Peter Denis Raclini Mrs. Solomon (Latifa Ourban)
## 859 ## 860	Baclini, Mrs. Solomon (Latifa Qurban)
## 860 ## 861	Razi, Mr. Raihed
## 862	Hansen, Mr. Claus Peter Giles, Mr. Frederick Edward
## 863	Swift, Mrs. Frederick Joel (Margaret Welles Barron)
## 864	Sage, Miss. Dorothy Edith "Dolly"
	Sago, Miss. Soloony Laton Bolly

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## 865
                                                                        Gill, Mr. John William
## 866
                                                                     Bystrom, Mrs. (Karolina)
                                                                 Duran y More, Miss. Asuncion
## 867
## 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)
                                                                      Carlsson, Mr. Frans Olof
## 873
## 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
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                                                ticket
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          sex
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##	196	female	58.00	0	0	PC 17569	146.5208	B80
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	211		24.00	0		• •	7.0500	<na></na>
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##	234	female	5.00	4	2	347077	31.3875	<na></na>
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## ## ##	236 237 238 239	female male female male	NA 44.00 8.00 19.00	1 0 0	0 2 0	26707 C.A. 31921 28665	26.0000 26.2500 10.5000	<na> <na> <na></na></na></na>
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	254	male			1	0	A/5. 3336	16.1000	<na></na>
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		female			0	0	PC 17755		<na></na>
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##	294	${\tt female}$	24.0	00	0	0	349236	8.8500	<na></na>
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##		female		2	2			B57 B59 B63 B66
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##	329	female	31.00	1	1	363291	20.5250	<na></na>
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	457		65.00	0	0	13509	26.5500	E38
		female	NA	1	0	17464	51.8625	D21
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##	475	female	22.	00	0	0)	7553	9.8375	<na></na>
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##	486	${\tt female}$		NA	3	1	1	4133	25.4667	<na></na>
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	494	male			0	0)	PC 17609	49.5042	<na></na>
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	498	male		NA	0			C.A. 6212	15.1000	<na></na>
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	566		24.00	2	0	A/4 48871	24.1500	<na></na>
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	567		19.00	0	0	349205	7.8958	<na></na>
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##	701	female	18.00	1	0	PC 17757	227.5250	C62 C64
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	713		48.00	1	0	19996	52.0000	C126
	714		29.00	0	0	7545	9.4833	<na></na>
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	741	male	NA	0	0	16988	30.0000		D45
	742		36.00	1	0	19877	78.8500		C46
		female		2	2		262.3750	B57 B59	
	744		24.00	1	0	376566	16.1000		<na></na>
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	746		70.00	1	1	WE/P 5735	71.0000		B22
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	750		31.00	0	0	335097	7.7500		<na></na>
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	753	male	6.00	0	1 0	392096 345780	12.4750 9.5000		<na></na>
	754		23.00	0	0	349204	7.8958		<na></na>
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	756	male	0.67	1	1	250649	14.5000		<na></na>
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##	765	male	16.00	0	0	347074	7.7750		<na></na>
##	766	female	51.00	1	0	13502	77.9583		D11
##	767	male	NA	0	0	112379	39.6000		<na></na>
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##		female	5.00	0	0	364516	12.4750		<na></na>
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## ## ## ## ##	701 702 703 704 705 706 707	CSCQSSS
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##	284	284	Yes	3
##	287	287	Yes	3
##	289	289	Yes	2
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##	291	291	Yes	1
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##	301	301	Yes	3
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##	367	367	Yes	1
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## 417	417	Yes	2
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## 511			1
## 513			2
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## ##	609	609	Yes	2
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##	713	713	Yes	1
##	717	717	Yes	1

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                           Yes
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                           Yes
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                 876
## 880
                 880
                           Yes
                                     1
## 888
                 888
                           Yes
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##
   890
                 890
                                     1
                           Yes
##
                                                                                              name
## 1
                                                                         Braund, Mr. Owen Harris
## 5
                                                                        Allen, Mr. William Henry
## 6
                                                                                 Moran, Mr. James
## 7
                                                                         McCarthy, Mr. Timothy J
## 13
                                                                 Saundercock, Mr. William Henry
## 15
                                                          Vestrom, Miss. Hulda Amanda Adolfina
## 17
                                                                            Rice, Master. Eugene
## 19
                                     Vander Planke, Mrs. Julius (Emelia Maria Vandemoortele)
## 21
                                                                            Fynney, Mr. Joseph J
## 25
                                                                  Palsson, Miss. Torborg Danira
```

##	28	Fortune, Mr. Charles Alexander
##	31	Uruchurtu, Don. Manuel E
##	34	Wheadon, Mr. Edward H
##	35	Meyer, Mr. Edgar Joseph
##	36	Holverson, Mr. Alexander Oskar
##	39	Vander Planke, Miss. Augusta Maria
##	41	Ahlin, Mrs. Johan (Johanna Persdotter Larsson)
##	42	Turpin, Mrs. William John Robert (Dorothy Ann Wonnacott)
##	43	Kraeff, Mr. Theodor
##	46	Rogers, Mr. William John
##	47	Lennon, Mr. Denis
##	50	Arnold-Franchi, Mrs. Josef (Josefine Franchi)
##	52	Nosworthy, Mr. Richard Cater
##	55	Ostby, Mr. Engelhart Cornelius
##	58	Novel, Mr. Mansouer
##	60	Goodwin, Master. William Frederick
##	61	Sirayanian, Mr. Orsen
##	63	Harris, Mr. Henry Birkhardt
##	65	Stewart, Mr. Albert A
##	68	Crease, Mr. Ernest James
##	70	Kink, Mr. Vincenz
##	71	Jenkin, Mr. Stephen Curnow
##	72	Goodwin, Miss. Lillian Amy
##	73	Hood, Mr. Ambrose Jr
##	74	Chronopoulos, Mr. Apostolos
##	76	Moen, Mr. Sigurd Hansen
##	77	Staneff, Mr. Ivan
##	81	Waelens, Mr. Achille
##	87	Ford, Mr. William Neal
##	91	Christmann, Mr. Emil
##	92	Andreasson, Mr. Paul Edvin
##	96	Shorney, Mr. Charles Joseph
##	97	Goldschmidt, Mr. George B
##	100	Kantor, Mr. Sinai
##	101	Petranec, Miss. Matilda
##	102	Petroff, Mr. Pastcho ("Pentcho")
##	103	White, Mr. Richard Frasar
##	104	Johansson, Mr. Gustaf Joel
##	106	Mionoff, Mr. Stoytcho
##	111	Porter, Mr. Walter Chamberlain
##	112	Zabour, Miss. Hileni
##	113	Barton, Mr. David John
##	115	Attalah, Miss. Malake
##	116	Pekoniemi, Mr. Edvard
##	117	·
##	118	Turpin, Mr. William John Robert
##	119	Baxter, Mr. Quigg Edmond
	120	
##	121	Hickman, Mr. Stanley George
##	122	Moore, Mr. Leonard Charles
##	123	Nasser, Mr. Nicholas
##	127	McMahon, Mr. Martin
##	130	Ekstrom, Mr. Johan
##	131	Drazenoic, Mr. Jozef

##	132	Coelho, Mr. Domingos Fernandeo
	133	Robins, Mrs. Alexander A (Grace Charity Laury)
	138	Futrelle, Mr. Jacques Heath
	139	Osen, Mr. Olaf Elon
	140	Giglio, Mr. Victor
	141	Boulos, Mrs. Joseph (Sultana)
	145	Andrew, Mr. Edgardo Samuel
	146	Nicholls, Mr. Joseph Charles
	148	Ford, Miss. Robina Maggie "Ruby"
	150	Byles, Rev. Thomas Roussel Davids
	151	Bateman, Rev. Robert James
	153 154	Meo, Mr. Alfonzo
	155	van Billiard, Mr. Austin Blyler Olsen, Mr. Ole Martin
	156	Williams, Mr. Charles Duane
	158	Corn, Mr. Harry
	159	Smiljanic, Mr. Mile
	160	Sage, Master. Thomas Henry
	161	Cribb, Mr. John Hatfield
	164	Calic, Mr. Jovo
	165	Panula, Master. Eino Viljami
	168	Skoog, Mrs. William (Anna Bernhardina Karlsson)
	170	Ling, Mr. Lee
	171	Van der hoef, Mr. Wyckoff
	172	Rice, Master. Arthur
	174	Sivola, Mr. Antti Wilhelm
	176	Klasen, Mr. Klas Albin
##	177	Lefebre, Master. Henry Forbes
##	179	Hale, Mr. Reginald
##	180	Leonard, Mr. Lionel
##	183	Asplund, Master. Clarence Gustaf Hugo
##	186	Rood, Mr. Hugh Roscoe
##	189	Bourke, Mr. John
##	190	Turcin, Mr. Stjepan
##	192	Carbines, Mr. William
##	197	Mernagh, Mr. Robert
	198	Olsen, Mr. Karl Siegwart Andreas
	200	Yrois, Miss. Henriette ("Mrs Harbeck")
	201	Vande Walle, Mr. Nestor Cyriel
	202	Sage, Mr. Frederick
	206	Strom, Miss. Telma Matilda
	207	Backstrom, Mr. Karl Alfred
	211	Ali, Mr. Ahmed
	213	Perkin, Mr. John Henry
	214	Givard, Mr. Hans Kristensen
	218	Jacobsohn, Mr. Sidney Samuel
	220	Harris, Mr. Walter
	222	Bracken, Mr. James H
	223	Green, Mr. George Henry
	224	Nenkoff, Mr. Christo
	226	Berglund, Mr. Karl Ivar Sven
	228	Lovell, Mr. John Hall ("Henry") Fahlstrom, Mr. Arne Jonas
	229	
##	230	Lefebre, Miss. Mathilde

##	233	Sjostedt, Mr. Ernst Adolf
##	235	Leyson, Mr. Robert William Norman
##	236	Harknett, Miss. Alice Phoebe
##	239	Pengelly, Mr. Frederick William
##	243	Coleridge, Mr. Reginald Charles
##	244	Maenpaa, Mr. Matti Alexanteri
##	245	Attalah, Mr. Sleiman
##	246	Minahan, Dr. William Edward
##	247	Lindahl, Miss. Agda Thorilda Viktoria
##	251	Reed, Mr. James George
##	252	Strom, Mrs. Wilhelm (Elna Matilda Persson)
##	261	Smith, Mr. Thomas
##	263	Taussig, Mr. Emil
##	264	Harrison, Mr. William
##	265	Henry, Miss. Delia
##	267	Panula, Mr. Ernesti Arvid
##	271	Cairns, Mr. Alexander
##	274	Natsch, Mr. Charles H
##	278	Parkes, Mr. Francis "Frank"
##	279	Rice, Master. Eric
##	281	Duane, Mr. Frank
##	282	Olsson, Mr. Nils Johan Goransson
##	283	de Pelsmaeker, Mr. Alfons
##	285	Smith, Mr. Richard William
##	288	Naidenoff, Mr. Penko
##	293	Levy, Mr. Rene Jacques
##	294	Haas, Miss. Aloisia
##	295	Mineff, Mr. Ivan
##	296	Lewy, Mr. Ervin G
##	297	Hanna, Mr. Mansour
##	303	Johnson, Mr. William Cahoone Jr
##	305	Williams, Mr. Howard Hugh "Harry"
##	313	Lahtinen, Mrs. William (Anna Sylfven)
##	314	Hendekovic, Mr. Ignjac
##	315	Hart, Mr. Benjamin
##	321	Dennis, Mr. Samuel
##	322	Danoff, Mr. Yoto
##	325	Sage, Mr. George John Jr
##	327	Nysveen, Mr. Johan Hansen
##	332	Partner, Mr. Austen
##	333	Graham, Mr. George Edward
##	334	Vander Planke, Mr. Leo Edmondus
##	337	Pears, Mr. Thomas Clinton
##	343	Collander, Mr. Erik Gustaf
##	344	Sedgwick, Mr. Charles Frederick Waddington
##	345	Fox, Mr. Stanley Hubert
##	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
##	358	Funk, Miss. Annie Clemmer

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
373	Beavan, Mr. William Thomas
374	Ringhini, Mr. Sante
375	Palsson, Miss. Stina Viola
378	Widener, Mr. Harry Elkins
379	Betros, Mr. Tannous
380	Gustafsson, Mr. Karl Gideon
383	Tikkanen, Mr. Juho
385	Plotcharsky, Mr. Vasil
386	Davies, Mr. Charles Henry
387	Goodwin, Master. Sidney Leonard
389	Sadlier, Mr. Matthew
396	Johansson, Mr. Erik
397	Olsson, Miss. Elina
398	McKane, Mr. Peter David
399	Pain, Dr. Alfred
402	Adams, Mr. John
403	Jussila, Miss. Mari Aina
404	Hakkarainen, Mr. Pekka Pietari
405	Oreskovic, Miss. Marija
406 410	Gale, Mr. Shadrach
412	Lefebre, Miss. Ida
414	Hart, Mr. Henry
414	Cunningham, Mr. Alfred Fleming Meek, Mrs. Thomas (Annie Louise Rowley)
419	Matthews, Mr. William John
420	Van Impe, Miss. Catharina
422	Charters, Mr. David
423	Zimmerman, Mr. Leo
424	Danbom, Mrs. Ernst Gilbert (Anna Sigrid Maria Brogren)
425	Rosblom, Mr. Viktor Richard
429	Flynn, Mr. James
434	Kallio, Mr. Nikolai Erland
435	Silvey, Mr. William Baird
439	Fortune, Mr. Mark
440	Kvillner, Mr. Johan Henrik Johannesson
442	Hampe, Mr. Leon
443	Petterson, Mr. Johan Emil
451	West, Mr. Edwy Arthur
452	Hagland, Mr. Ingvald Olai Olsen
455	Peduzzi, Mr. Joseph
463	Gee, Mr. Arthur H
464	Milling, Mr. Jacob Christian
465	Maisner, Mr. Simon
467	Campbell, Mr. William
468	Smart, Mr. John Montgomery
469	Scanlan, Mr. James
471	Keefe, Mr. Arthur
472	Cacic, Mr. Luka

##	475	Strandberg, Miss. Ida Sofia
##	477	Renouf, Mr. Peter Henry
	478	Braund, Mr. Lewis Richard
	479	Karlsson, Mr. Nils August
	481	Goodwin, Master. Harold Victor
	482	Frost, Mr. Anthony Wood "Archie"
	486	Lefebre, Miss. Jeannie
	488	Kent, Mr. Edward Austin
	489	Somerton, Mr. Francis William
	491 492	Hagland, Mr. Konrad Mathias Reiersen
	493	Windelov, Mr. Einar Molson, Mr. Harry Markland
	494	Artagaveytia, Mr. Ramon
	496	Yousseff, Mr. Gerious
	498	Shellard, Mr. Frederick William
	499	Allison, Mrs. Hudson J C (Bessie Waldo Daniels)
	500	Svensson, Mr. Olof
	502	Canavan, Miss. Mary
	503	O'Sullivan, Miss. Bridget Mary
	504	Laitinen, Miss. Kristina Sofia
##	506	Penasco y Castellana, Mr. Victor de Satode
##	509	Olsen, Mr. Henry Margido
##	512	Webber, Mr. James
##	515	Coleff, Mr. Satio
##	516	Walker, Mr. William Anderson
##	518	Ryan, Mr. Patrick
	520	Pavlovic, Mr. Stefo
	522	Vovk, Mr. Janko
	523	Lahoud, Mr. Sarkis
	525	Kassem, Mr. Fared
	528	Farthing, Mr. John
	529	Salonen, Mr. Johan Werner
	533	Elias, Mr. Joseph Jr
	535 537	Cacic, Miss. Marija
	539	Butt, Major. Archibald Willingham Risien, Mr. Samuel Beard
	542	Andersson, Miss. Ingeborg Constanzia
	545	Douglas, Mr. Walter Donald
	549	Goldsmith, Mr. Frank John
	553	O'Brien, Mr. Timothy
	556	Wright, Mr. George
	558	Robbins, Mr. Victor
	561	Morrow, Mr. Thomas Rowan
	562	Sivic, Mr. Husein
##	563	Norman, Mr. Robert Douglas
##	565	Meanwell, Miss. (Marion Ogden)
	566	Davies, Mr. Alfred J
##	567	Stoytcheff, Mr. Ilia
##	568	Palsson, Mrs. Nils (Alma Cornelia Berglund)
##	575	Rush, Mr. Alfred George John
##	576	Patchett, Mr. George
	583	Downton, Mr. William James
	584	Ross, Mr. John Hugo
##	585	Paulner, Mr. Uscher

##	587	Jarvis, Mr. John Denzil
##	589	Gilinski, Mr. Eliezer
##	593	Elsbury, Mr. William James
##	594	Bourke, Miss. Mary
##	595	Chapman, Mr. John Henry
##	598	Johnson, Mr. Alfred
##	599	Boulos, Mr. Hanna
##	602	Slabenoff, Mr. Petco
##	603	Harrington, Mr. Charles H
##	604	Torber, Mr. Ernst William
##	606	Lindell, Mr. Edvard Bengtsson
##	607	Karaic, Mr. Milan
##	611	Andersson, Mrs. Anders Johan (Alfrida Konstantia Brogren)
##	612	Jardin, Mr. Jose Neto
##	614	Horgan, Mr. John
##	618	Lobb, Mrs. William Arthur (Cordelia K Stanlick)
##	620	Gavey, Mr. Lawrence
##	621	Yasbeck, Mr. Antoni
##	624	Hansen, Mr. Henry Damsgaard
##	625	Bowen, Mr. David John "Dai"
##	626	Sutton, Mr. Frederick
##	627	Kirkland, Rev. Charles Leonard
##	629	Bostandyeff, Mr. Guentcho
##	630	O'Connell, Mr. Patrick D
##	632	Lundahl, Mr. Johan Svensson
##	635	Skoog, Miss. Mabel
##	637	Leinonen, Mr. Antti Gustaf
##	638	Collyer, Mr. Harvey
##	640	Thorneycroft, Mr. Percival
##	641	Jensen, Mr. Hans Peder
##	643	Skoog, Miss. Margit Elizabeth
##	647	Cor, Mr. Liudevit
##	649	Willey, Mr. Edward
##	651	Mitkoff, Mr. Mito
##	653	Kalvik, Mr. Johannes Halvorsen
##	655	Hegarty, Miss. Hanora "Nora"
##	656	Hickman, Mr. Leonard Mark
##	657	Radeff, Mr. Alexander
##	658	Bourke, Mrs. John (Catherine)
##	660	Newell, Mr. Arthur Webster
##	662	Badt, Mr. Mohamed
##	663	Colley, Mr. Edward Pomeroy
##	664	Coleff, Mr. Peju
##	666	Hickman, Mr. Lewis
##	667	Butler, Mr. Reginald Fenton
##	668	Rommetvedt, Mr. Knud Paust
##	673	Mitchell, Mr. Henry Michael
##	675	Watson, Mr. Ennis Hastings
##	676	Edvardsson, Mr. Gustaf Hjalmar
##	677	Sawyer, Mr. Frederick Charles
##	679	Goodwin, Mrs. Frederick (Augusta Tyler)
##	681	Peters, Miss. Katie
##	683	Olsvigen, Mr. Thor Anderson
##	684	Goodwin, Mr. Charles Edward

(Brown, Mr. Thomas William Solomon
(Laroche, Mr. Joseph Philippe Lemercier
(Panula, Mr. Jaako Arnold
(Dakic, Mr. Branko
(Fischer, Mr. Eberhard Thelander
(Saad, Mr. Khalil
(Chapman, Mr. Charles Henry
(Kelly, Mr. James
## '		Humblen, Mr. Adolf Mathias Nicolai Olsen
## '		Barbara, Miss. Saiide
## '		Hansen, Mr. Henrik Juul
## '	706	Morley, Mr. Henry Samuel ("Mr Henry Marshall")
## '	712	Klaber, Mr. Herman
## '		Larsson, Mr. August Viktor
## '		Greenberg, Mr. Samuel
## '		McEvoy, Mr. Michael
## '		Johnson, Mr. Malkolm Joackim
## '	723	Gillespie, Mr. William Henry
## '	726	Oreskovic, Mr. Luka
## '	729	Bryhl, Mr. Kurt Arnold Gottfrid
## '	730	Ilmakangas, Miss. Pieta Sofia
## `	732	Hassan, Mr. Houssein G N
## '	733	Knight, Mr. Robert J
## '	735	Troupiansky, Mr. Moses Aaron
## '	736	Williams, Mr. Leslie
## '	737	Ford, Mrs. Edward (Margaret Ann Watson)
## '	739	Ivanoff, Mr. Kanio
## '	740	Nankoff, Mr. Minko
## '	744	McNamee, Mr. Neal
## '	746	Crosby, Capt. Edward Gifford
## '	747	Abbott, Mr. Rossmore Edward
## '	750	Connaghton, Mr. Michael
## '	753	Vande Velde, Mr. Johannes Joseph
## '	754	Jonkoff, Mr. Lalio
## '	757	Carlsson, Mr. August Sigfrid
## '	758	Bailey, Mr. Percy Andrew
## '	759	Theobald, Mr. Thomas Leonard
## '	761	Garfirth, Mr. John
## '	762	Nirva, Mr. Iisakki Antino Aijo
## '	765	Eklund, Mr. Hans Linus
## '	767	Brewe, Dr. Arthur Jackson
## '	768	Mangan, Miss. Mary
## '	769	Moran, Mr. Daniel J
## '	771	Lievens, Mr. Rene Aime
## '	773	Mack, Mrs. (Mary)
## '	774	Elias, Mr. Dibo
## '	776	Myhrman, Mr. Pehr Fabian Oliver Malkolm
## '	777	Tobin, Mr. Roger
## '	783	Long, Mr. Milton Clyde
## '	784	Johnston, Mr. Andrew G
## '	785	Ali, Mr. William
## '	788	Rice, Master. George Hugh
## '	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
	799	Ibrahim Shawah, Mr. Yousseff
	800	Van Impe, Mrs. Jean Baptiste (Rosalie Paula Govaert)
	807	Andrews, Mr. Thomas Jr
	808	Pettersson, Miss. Ellen Natalia
	809 811	Meyer, Mr. August
	812	Alexander, Mr. William Lester, Mr. James
	813	Slemen, Mr. Richard James
	814	Andersson, Miss. Ebba Iris Alfrida
	815	Tomlin, Mr. Ernest Portage
	816	Fry, Mr. Richard
	820	Skoog, Master. Karl Thorsten
	823	Reuchlin, Jonkheer. John George
##	825	Panula, Master. Urho Abraham
##	826	Flynn, Mr. John
##	827	Lam, Mr. Len
##	833	Saad, Mr. Amin
##	834	Augustsson, Mr. Albert
	835	Allum, Mr. Owen George
	837	Pasic, Mr. Jakob
	842	Mudd, Mr. Thomas Charles
	844	Lemberopolous, Mr. Peter L
	846	Abbing, Mr. Anthony
	847	Sage, Mr. Douglas Bullen
	848 849	Markoff, Mr. Marin
	851	Harper, Rev. John Andersson, Master. Sigvard Harald Elias
	852	Svensson, Mr. Johan
	853	Boulos, Miss. Nourelain
	855	Carter, Mrs. Ernest Courtenay (Lilian Hughes)
	860	Razi, Mr. Raihed
	861	Hansen, Mr. Claus Peter
##	862	Giles, Mr. Frederick Edward
##	864	Sage, Miss. Dorothy Edith "Dolly"
##	865	Gill, Mr. John William
##	868	Roebling, Mr. Washington Augustus II
##	869	van Melkebeke, Mr. Philemon
	871	Balkic, Mr. Cerin
	873	Carlsson, Mr. Frans Olof
	878	Petroff, Mr. Nedelio
	879	Laleff, Mr. Kristo
	883	Dahlberg, Miss. Gerda Ulrika
	884	Banfield, Mr. Frederick James
	885	Sutehall, Mr. Henry Jr
	887	Montvila, Rev. Juozas
	889 891	Johnston, Miss. Catherine Helen "Carrie"
##		Dooley, Mr. Patrick Cumings, Mrs. John Bradley (Florence Briggs Thayer)
##		Heikkinen, Miss. Laina
##		Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)
	-	oumbon, his. obout " (hisbooth vilholmind borg)

## 10	Nasser, Mrs. Nicholas (Adele Achem)
## 18	Williams, Mr. Charles Eugene
## 20	Masselmani, Mrs. Fatima
## 22	Beesley, Mr. Lawrence
## 23	McGowan, Miss. Anna "Annie"
## 24	Sloper, Mr. William Thompson
## 26	Asplund, Mrs. Carl Oscar (Selma Augusta Emilia Johansson)
## 29 ## 32	O'Dwyer, Miss. Ellen "Nellie"
## 32 ## 33	Spencer, Mrs. William Augustus (Marie Eugenie) Glynn, Miss. Mary Agatha
## 37	Mamee, Mr. Hanna
## 40	Nicola-Yarred, Miss. Jamila
## 44	Laroche, Miss. Simonne Marie Anne Andree
## 48	O'Driscoll, Miss. Bridget
## 54	Faunthorpe, Mrs. Lizzie (Elizabeth Anne Wilkinson)
## 56	Woolner, Mr. Hugh
## 59	West, Miss. Constance Mirium
## 62	Icard, Miss. Amelie
## 67	Nye, Mrs. (Elizabeth Ramell)
## 69	Andersson, Miss. Erna Alexandra
## 75	Bing, Mr. Lee
## 80	Dowdell, Miss. Elizabeth
## 82	Sheerlinck, Mr. Jan Baptist
## 83	McDermott, Miss. Brigdet Delia
## 85	Ilett, Miss. Bertha
## 86	Backstrom, Mrs. Karl Alfred (Maria Mathilda Gustafsson)
## 89 ## 08	Fortune, Miss. Mabel Helen
## 98 ## 99	Greenfield, Mr. William Bertram
## 107	Doling, Mrs. John T (Ada Julia Bone) Salkjelsvik, Miss. Anna Kristine
## 107	Moss, Mr. Albert Johan
## 110	Moran, Miss. Bertha
## 124	Webber, Miss. Susan
## 126	Nicola-Yarred, Master. Elias
## 129	Peter, Miss. Anna
## 137	Newsom, Miss. Helen Monypeny
## 143	Hakkarainen, Mrs. Pekka Pietari (Elin Matilda Dolck)
## 147	Andersson, Mr. August Edvard ("Wennerstrom")
## 152	Pears, Mrs. Thomas (Edith Wearne)
## 157	Gilnagh, Miss. Katherine "Katie"
## 162	Watt, Mrs. James (Elizabeth "Bessie" Inglis Milne)
## 166	Goldsmith, Master. Frank John William "Frankie"
## 167	Chibnall, Mrs. (Edith Martha Bowerman)
## 173	Johnson, Miss. Eleanor Ileen
## 184 ## 188	Becker, Master. Richard F
## 188 ## 191	Romaine, Mr. Charles Hallace ("Mr C Rolmane")
## 191 ## 193	Pinsky, Mrs. (Rosa) Andersen-Jensen, Miss. Carla Christine Nielsine
## 195 ## 194	Navratil, Master. Michel M
## 19 4 ## 196	Lurette, Miss. Elise
## 190 ## 199	Madigan, Miss. Margaret "Maggie"
## 205	Cohen, Mr. Gurshon "Gus"
## 208	Albimona, Mr. Nassef Cassem
## 209	Carr, Miss. Helen "Ellen"
	·

	210	Blank, Mr. Henry
	212	Cameron, Miss. Clear Annie
	217221	Honkanen, Miss. Eliina Sunderland, Mr. Victor Francis
	225	Hoyt, Mr. Frederick Maxfield
	227	Mellors, Mr. William John
	231	Harris, Mrs. Henry Birkhardt (Irene Wallach)
	234	Asplund, Miss. Lillian Gertrud
##	242	Murphy, Miss. Katherine "Kate"
##	248	Hamalainen, Mrs. William (Anna)
##	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)
	262	Asplund, Master. Edvin Rojj Felix
	268 269	Persson, Mr. Ernst Ulrik
	272	Graham, Mrs. William Thompson (Edith Junkins) Tornquist, Mr. William Henry
	273	Mellinger, Mrs. (Elizabeth Anne Maidment)
	275	Healy, Miss. Hanora "Nora"
	276	Andrews, Miss. Kornelia Theodosia
	280	Abbott, Mrs. Stanton (Rosa Hunt)
##	284	Dorking, Mr. Edward Arthur
##	287	de Mulder, Mr. Theodore
##	289	Hosono, Mr. Masabumi
	290	Connolly, Miss. Kate
	291	Barber, Miss. Ellen "Nellie"
	292	Bishop, Mrs. Dickinson H (Helen Walton)
	299	Saalfeld, Mr. Adolphe
	300 301	Baxter, Mrs. James (Helene DeLaudeniere Chaput)
	304	Kelly, Miss. Anna Katherine "Annie Kate" Keane, Miss. Nora A
	306	Allison, Master. Hudson Trevor
	307	Fleming, Miss. Margaret
		Penasco y Castellana, Mrs. Victor de Satode (Maria Josefa Perez de Soto y Vallejo)
	310	Francatelli, Miss. Laura Mabel
##	311	Hays, Miss. Margaret Bechstein
##	312	Ryerson, Miss. Emily Borie
##	316	Nilsson, Miss. Helmina Josefina
##	317	Kantor, Mrs. Sinai (Miriam Sternin)
	319	Wick, Miss. Mary Natalie
	320	Spedden, Mrs. Frederic Oakley (Margaretta Corning Stone)
	323	Slayter, Miss. Hilda Mary
	324	Caldwell, Mrs. Albert Francis (Sylvia Mae Harbaugh)
	326 329	Young, Miss. Marie Grice Goldsmith, Mrs. Frank John (Emily Alice Brown)
	330	Goldsmith, Mrs. Frank John (Emily Alice Brown) Hippach, Miss. Jean Gertrude
	331	McCoy, Miss. Agnes
	335	Frauenthal, Mrs. Henry William (Clara Heinsheimer)
	338	Burns, Miss. Elizabeth Margaret
	341	Navratil, Master. Edmond Roger
##	342	Fortune, Miss. Alice Elizabeth
##	346	Brown, Miss. Amelia "Mildred"

	347	Smith, Miss. Marion Elsie
	348	Davison, Mrs. Thomas Henry (Mary E Finck)
	349	Coutts, Master. William Loch "William"
	357	Bowerman, Miss. Elsie Edith
	359	McGovern, Miss. Mary
	360 367	Mockler, Miss. Helen Mary "Ellie"
	368	Warren, Mrs. Frank Manley (Anna Sophia Atkinson) Moussa, Mrs. (Mantoura Boulos)
	369	Jermyn, Miss. Annie
	370	Aubart, Mme. Leontine Pauline
	371	Harder, Mr. George Achilles
	376	Meyer, Mrs. Edgar Joseph (Leila Saks)
	377	Landergren, Miss. Aurora Adelia
	381	Bidois, Miss. Rosalie
	382	Nakid, Miss. Maria ("Mary")
##	384	Holverson, Mrs. Alexander Oskar (Mary Aline Towner)
##	388	Buss, Miss. Kate
##	390	Lehmann, Miss. Bertha
##	391	Carter, Mr. William Ernest
##	394	Newell, Miss. Marjorie
##	395	Sandstrom, Mrs. Hjalmar (Agnes Charlotta Bengtsson)
##	400	Trout, Mrs. William H (Jessie L)
	401	Niskanen, Mr. Juha
	408	Richards, Master. William Rowe
	413	Minahan, Miss. Daisy E
	415	Sundman, Mr. Johan Julian
	417	Drew, Mrs. James Vivian (Lulu Thorne Christian)
	418	Silven, Miss. Lyyli Karoliina
	427	Clarke, Mrs. Charles V (Ada Maria Winfield)
	428 430	Phillips, Miss. Kate Florence ("Mrs Kate Louise Phillips Marshall")
	431	Pickard, Mr. Berk (Berk Trembisky)
	432	Bjornstrom-Steffansson, Mr. Mauritz Hakan Thorneycroft, Mrs. Percival (Florence Kate White)
	433	Louch, Mrs. Charles Alexander (Alice Adelaide Slow)
	436	Carter, Miss. Lucile Polk
	438	Richards, Mrs. Sidney (Emily Hocking)
	441	Hart, Mrs. Benjamin (Esther Ada Bloomfield)
	446	Dodge, Master. Washington
##	447	Mellinger, Miss. Madeleine Violet
	448	Seward, Mr. Frederic Kimber
##	454	Goldenberg, Mr. Samuel L
##	456	Jalsevac, Mr. Ivan
##	458	Kenyon, Mrs. Frederick R (Marion)
##	459	Toomey, Miss. Ellen
##	461	Anderson, Mr. Harry
	474	Jerwan, Mrs. Amin S (Marie Marthe Thuillard)
	480	Hirvonen, Miss. Hildur E
	484	Turkula, Mrs. (Hedwig)
	485	Bishop, Mr. Dickinson H
	487	Hoyt, Mrs. Frederick Maxfield (Jane Anne Forby)
	490	Coutts, Master. Eden Leslie "Neville"
	497	Eustis, Miss. Elizabeth Mussey
	505	Maioni, Miss. Roberta
##	508	Bradley, Mr. George ("George Arthur Brayton")

	511	Daly, Mr. Eugene Patrick
	513	McGough, Mr. James Robert
	517	Lemore, Mrs. (Amelia Milley)
	519	Angle, Mrs. William A (Florence "Mary" Agnes Hughes)
	521	Perreault, Miss. Anne
	527 521	Ridsdale, Miss. Lucy
	531 536	Quick, Miss. Phyllis May Hart, Miss. Eva Miriam
	538	LeRoy, Miss. Bertha
	544	Beane, Mr. Edward
	547	Beane, Mrs. Edward (Ethel Clarke)
	548	Padro y Manent, Mr. Julian
	551	Thayer, Mr. John Borland Jr
	554	Leeni, Mr. Fahim ("Philip Zenni")
	555	Ohman, Miss. Velin
##	557	Duff Gordon, Lady. (Lucille Christiana Sutherland) ("Mrs Morgan")
##	570	Jonsson, Mr. Carl
##	572	Appleton, Mrs. Edward Dale (Charlotte Lamson)
##	574	Kelly, Miss. Mary
##	577	Garside, Miss. Ethel
##	578	Silvey, Mrs. William Baird (Alice Munger)
	581	Christy, Miss. Julie Rachel
	588	Frolicher-Stehli, Mr. Maxmillian
	592	Stephenson, Mrs. Walter Bertram (Martha Eustis)
	600	Duff Gordon, Sir. Cosmo Edmund ("Mr Morgan")
	601	Jacobsohn, Mrs. Sidney Samuel (Amy Frances Christy)
	605	Homer, Mr. Harry ("Mr E Haven")
	608	Daniel, Mr. Robert Williams
	609	Laroche, Mrs. Joseph (Juliette Marie Louise Lafargue)
	610 616	Shutes, Miss. Elizabeth W
	619	Herman, Miss. Alice
	622	Becker, Miss. Marion Louise Kimball, Mr. Edwin Nelson Jr
	623	Nakid, Mr. Sahid
	628	Longley, Miss. Gretchen Fiske
	633	Stahelin-Maeglin, Dr. Max
	636	Davis, Miss. Mary
	644	Foo, Mr. Choong
##	645	Baclini, Miss. Eugenie
	646	Harper, Mr. Henry Sleeper
##	650	Stanley, Miss. Amy Zillah Elsie
##	652	Doling, Miss. Elsie
##	654	O'Leary, Miss. Hanora "Norah"
##	661	Frauenthal, Dr. Henry William
##	665	Lindqvist, Mr. Eino William
	670	Taylor, Mrs. Elmer Zebley (Juliet Cummins Wright)
	671	Brown, Mrs. Thomas William Solomon (Elizabeth Catherine Ford)
	674	Wilhelms, Mr. Charles
	678	Turja, Miss. Anna Sofia
	680	Cardeza, Mr. Thomas Drake Martinez
	682	Hassab, Mr. Hammad
	690	Madill, Miss. Georgette Alexandra
	691	Dick, Mr. Albert Adrian
##	692	Karun, Miss. Manca

## 69	393	Lam, Mr. Ali
## 69	598	Mullens, Miss. Katherine "Katie"
## 7	701	Astor, Mrs. John Jacob (Madeleine Talmadge Force)
## 7		Silverthorne, Mr. Spencer Victor
## 7		Kelly, Mrs. Florence "Fannie"
## 7	708	Calderhead, Mr. Edward Pennington
## 7	709	Cleaver, Miss. Alice
## 7	710	Moubarek, Master. Halim Gonios ("William George")
## 7	711	Mayne, Mlle. Berthe Antonine ("Mrs de Villiers")
## 7	713	Taylor, Mr. Elmer Zebley
## 7	717	Endres, Miss. Caroline Louise
## 7	725	Chambers, Mr. Norman Campbell
## 7	728	Mannion, Miss. Margareth
## 7	738	Lesurer, Mr. Gustave J
## 7	741	Hawksford, Mr. Walter James
## 7	745	Stranden, Mr. Juho
## 7	751	Wells, Miss. Joan
## 7	752	Moor, Master. Meier
## 7	755	Herman, Mrs. Samuel (Jane Laver)
## 7	756	Hamalainen, Master. Viljo
## 7	760 Ro	othes, the Countess. of (Lucy Noel Martha Dyer-Edwards)
## 7	763	Barah, Mr. Hanna Assi
## 7	764	Carter, Mrs. William Ernest (Lucile Polk)
## 7	775	Hocking, Mrs. Elizabeth (Eliza Needs)
## 78	780	Robert, Mrs. Edward Scott (Elisabeth Walton McMillan)
## 78	781	Ayoub, Miss. Banoura
## 78	787	Sjoblom, Miss. Anna Sofia
## 78	789	Dean, Master. Bertram Vere
## 79	798	Osman, Mrs. Mara
## 80	302	Collyer, Mrs. Harvey (Charlotte Annie Tate)
## 80	304	Thomas, Master. Assad Alexander
## 80	305	Hedman, Mr. Oskar Arvid
## 8	310	Chambers, Mrs. Norman Campbell (Bertha Griggs)
## 8	321	Hays, Mrs. Charles Melville (Clara Jennings Gregg)
## 8	329	McCormack, Mr. Thomas Joseph
## 83	330	Stone, Mrs. George Nelson (Martha Evelyn)
## 83	331	Yasbeck, Mrs. Antoni (Selini Alexander)
## 83	332	Richards, Master. George Sibley
## 83	336	Compton, Miss. Sara Rebecca
## 83	339	Chip, Mr. Chang
## 84	340	Marechal, Mr. Pierre
## 8	354	Lines, Miss. Mary Conover
## 8	356	Aks, Mrs. Sam (Leah Rosen)
## 8	357	Wick, Mrs. George Dennick (Mary Hitchcock)
## 8	359	Baclini, Mrs. Solomon (Latifa Qurban)
## 80	363	Swift, Mrs. Frederick Joel (Margaret Welles Barron)
## 80	366	Bystrom, Mrs. (Karolina)
## 8'		Johnson, Master. Harold Theodor
## 8'		Beckwith, Mrs. Richard Leonard (Sallie Monypeny)
## 8'		Abelson, Mrs. Samuel (Hannah Wizosky)
## 8'		Najib, Miss. Adele Kiamie "Jane"
## 88		Potter, Mrs. Thomas Jr (Lily Alexenia Wilson)
## 88		Graham, Miss. Margaret Edith
## 89		Behr, Mr. Karl Howell
		·

##		sex	age	sib_sp	parch	ticket	fare	cabin
##	1		22.00	1	0	A/5 21171	7.2500	<na></na>
##	5	male	35.00	0	0	373450	8.0500	<na></na>
##	6	male	NA	0	0	330877	8.4583	<na></na>
##	7	male	54.00	0	0	17463	51.8625	E46
##	13	male	20.00	0	0	A/5. 2151	8.0500	<na></na>
##	15	female	14.00	0	0	350406	7.8542	<na></na>
##	17	male	2.00	4	1	382652	29.1250	<na></na>
##	19	female	31.00	1	0	345763	18.0000	<na></na>
##	21	male	35.00	0	0	239865	26.0000	<na></na>
##	25	female	8.00	3	1	349909	21.0750	<na></na>
##	28	male	19.00	3	2	19950	263.0000	C23 C25 C27
##	31	male	40.00	0	0	PC 17601	27.7208	<na></na>
##	34	male	66.00	0	0	C.A. 24579	10.5000	<na></na>
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##	36	male	42.00	1	0	113789	52.0000	<na></na>
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##	42	${\tt female}$	27.00	1	0	11668	21.0000	<na></na>
##	43	male	NA	0	0	349253	7.8958	<na></na>
##	46	male	NA	0	0	S.C./A.4. 23567	8.0500	<na></na>
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##	50	${\tt female}$	18.00	1	0	349237	17.8000	<na></na>
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##	55	male	65.00	0	1	113509	61.9792	B30
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##			22.00	0	0	2669	7.2292	<na></na>
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##		male	NA	0	0	PC 17605	27.7208	<na></na>
##			19.00	0	0	S.P. 3464	8.1583	<na></na>
	70		26.00	2	0	315151	8.6625	<na></na>
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	72	female		5	2	CA 2144	46.9000	<na></na>
	73		21.00	0	0	S.O.C. 14879	73.5000	<na></na>
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##		male	NA	0	0	349208	7.8958	<na></na>
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##	87		16.00 29.00	1	3	W./C. 6608 343276	34.3750 8.0500	<na></na>
	92		20.00	0	0	347466	7.8542	<na></na>
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	102		21.00	0	1	35281	77.2875	D26
	104		33.00	0	0	7540	8.6542	<na></na>
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		female	NA	0	2	2678	15.2458	<na></na>
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##	233	male	59.00	0	0	237442	13.5000	<na></na>
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##	263	male	52.00) 1	1	110413	79.6500	E67
	264		40.00		0	112059	0.0000	B94
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	274		37.00		1	PC 17596	29.7000	C118
	278	male	N.		0	239853	0.0000	<na></na>
	279	male	7.00		1	382652	29.1250	<na></na>
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	288		22.00		0	349206	7.8958	<na></na>
	293		36.00		0	SC/Paris 2163	12.8750	D
		female			0	349236	8.8500	<na></na>
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			19.00					<na></na>
	303		19.00		0	LINE	0.0000 8.0500	<na></na>
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		female	28.00		1	250651	26.0000	<na></na>
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	332		45.50		0	113043	28.5000	C124
	333		38.00		1	PC 17582		C91
	334		16.00		0	345764	18.0000	<na></na>
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	343		28.00	0	0	248740	13.0000	<na></na>
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	440		31.00	0	0	C.A. 18723	10.5000	<na></na>
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				_	-			

##	1 E1	molo.	36 00	1	0	C A 24651	07 7500	<na></na>
	451 452	male	36.00 NA	1	2 0	C.A. 34651 65303	27.7500 19.9667	<na></na>
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##	013	шате	55.00	U	U	095	5.0000	ספם פטם זטם

шш	070		10 0	١٥	0	0	240010	7 0050	< N. A. S.
	878 879	male male		JA	0	0	349212	7.8958 7.8958	<na></na>
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                                                 112053
                                                        30.0000
                                                                               B42
## 890
         male 26.00
                           0
                                 0
                                                 111369 30.0000
                                                                              C148
##
       embarked
## 1
               S
## 5
               S
## 6
               Q
## 7
               S
## 13
               S
## 15
               S
## 17
               Q
               S
## 19
## 21
               S
## 25
               S
## 28
               S
## 31
               C
## 34
               S
## 35
               C
## 36
               \mathsf{S}
## 39
               S
               S
## 41
## 42
               S
               С
## 43
## 46
               S
## 47
               Q
               S
## 50
               S
## 52
## 55
               С
## 58
               C
## 60
               S
               С
## 61
## 63
               S
               С
## 65
               S
## 68
## 70
               S
## 71
               S
## 72
               S
               S
## 73
## 74
               С
## 76
               S
## 77
               \mathsf{S}
## 81
               S
## 87
               S
## 91
               S
## 92
               S
```

96

S

## ##	97 100	C S
##	101	S
##	102	S
##	103	S
##	104	S
##	106	S
##	111	S
##	112	С
##	113	S
##	115	С
##	116	S
##	117	Q
##	118	S
##	119	C
##	120	S S
##	121 122	S
## ##	123	C
##	127	Q
##	130	S
##	131	С
##	132	S
##	133	S
##	138	S
##	139	S
##	140	С
##	141	С
##	145	S
##	146	S
##	148	S
##	150	S
##	151	S
##	153	S
##	154	S
##	155 156	S C
##		_
##	158 159	S S
##	160	S
##	161	S
##	164	S
##	165	S
##	168	S
##	170	S
##	171	S
##	172	Q
##	174	S
##	176	S
##	177	S
##	179	S
##	180	S
##	183	S
##	186	S

## ##	189 190	Q S
##	192	S
##	197	Q
##	198	S
##	200	S
##	201	S
##	202	S
##	206	S
##	207	S
##	211	S
##	213	S
##	214	S
##	218	S
##	220	S
##	222	S
##	223	S
##	224	S
##	226	S
##	228	S
##	229 230	S S
## ##	233	S
##	235	S
##	236	S
##	239	S
##	243	S
##	244	S
##	245	С
##	246	
##	247	Q S
##	251	S
##	252	S
##	261	Q
##	263	S
##	264	S
##	265	Q
##	267	S
##	271	S
##	274	C
##	278	S
##	279	Q
## ##	281	Q S
##	282 283	S
##	285	S
##	288	S
##	293	С
##	294	S
##	295	S
##	296	С
##	297	С
##	303	S
##	305	S

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##	315	S
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##	333	S
##	334	S
##	337	S
##	343	S
##	344	S
##	345	S
##	350	S
##	351	S
##	352	S
##	353	C
##	354	S
##	355	C
##	356	S
##	358	S
##	361	S
##	362	C
##	363	C
##	364	S
##	365	Q
##	366	S
##	373	S
##	374	C
##	375	S
##	378	C
##	379	C
##	380	S
##	383	S
##	385	S
##	386	S
##	387	S
##	389	Q
##	396	S
##	397	S
##	398	S
##	399	S
##	402	S
##	403	S
##	404	S
##	405	S
##	406	S
##	410	S
##	412	Q
##	414	S
##	416	S
##	419	S
##	420	S

##	422	\cap
##	423	Q S
	423	S
##	424	S
##	429	Q
	434	S
##		S
##	435	S
##	439 440	S
##		S
##	442 443	S
##		
##	451	S S
##	452	
##	455	S
##	463	S
##	464	S
##	465	S
##	467	S
##	468	S
##	469	Q
##	471	S
##	472	S
##	475	S
##	477	S
##	478	S
##	479	S
##	481	S
##	482	S
##	486	S
##	488	С
##	489	S S
##	491	S
##	492	S
##	493	S
##	494	С
##	496	С
##	498	S
##	499	S
##	500	S
##	502	Q
##	503	Q
##	504	S
##	506	С
##	509	S
##	512	S
##	515	S
##	516	S
##	518	Q
##	520	S
##	522	S
##	523	C
##	525	С
##	528	S
##	529	S

	-00	~
##	533	С
##	535	S
##	537	S
##	539	S
##	542	S
##	545	C
##	549	S
##	553	Q
##	556	S
##	558	С
##	561	Q
##	562	S
##	563	S
##	565	S
##	566	S
##	567	S
##	568	S
##	575	S
##	576	S
##	583	S
##	584	C
##	585	С
##	587	S
##	589	S
##	593	S
##	594	Q
##	595	S
##	598	S
##	599	C
##	602	S
##	603	S
##	604	S
##	606	S
##	607	S
##	611	S
##	612	S
##	614	
	618	Q S
##	620	S
##	621	C
##	624	S
##	625	S
##	626	S
	627	Q
##	629	S
	630	
##	632	Q S
##	635	S
	637	S
##		
##	638	S
##	640	S
##	641	S
##	643	S
##	647	S

##	649	S
##	651	S
##	653	S
##	655	Q
##	656	S
##	657	S
##	658	Q
##	660	C
##	662	C
##	663	S S
##	664	S
##	666	S
##	667	S
##	668	S
##	673	S
##	675	S
##	676	S
##	677	5
##	679	5
##	681	Ų
##	683	S c
## ##	684 685	ت و
##	686	o C
##	687	9
##	688	g
##	689	S
##	694	C
##	696	S S Q S S C S S S C S S S C S
##	697	S
##	700	S
##	703	C
##	705	S
##	706	S
##	712	S S
##	714	S
##	715	S
##	719	Q
##	720	S
##	723	S
##	726	S
##	729	S
##	730	S
##	732	C
##	733	S
##	735	S
##	736	S
##	737	S
##	739	S
##	740	S
##	744	S
##	746	S
##	747	S
##	750	Q

##	753	S
	754	S
##	757	S
##	758	S
##	759	S
		S
##	761	S
##	762	S
##	765	C
##	767	
##	768	Q
##	769	Q
##	771	S
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##	774	C
##	776	S
##	777	Q
##	783	S
##	784	S
##	785	S
##	788	Q
##	791	Q
##	792	S
##	793	S
##	794	С
##	795	S
##	796	S
##	799	С
##	800	S
##	807	S
##	808	S
##	809	S
##	811	S
##	812	S
##	813	S
##	814	S
##	815	S
##	816	S
##	820	S
##	823	S
##	825	S
##	826	Q
##	827	S
##	833	С
##	834	S
##	835	S
##	837	S
##	842	S
##	844	С
##	846	S
##	847	S
##	848	С
##	849	S
##	851	S
##	852	S

##	853	С
##	855	S
##	860	C
##	861	S
##	862	S
##	864	S
##	865	S
##	868	S
##	869	S
##	871	S
##	873	S
##	878	S
##	879	S
##	883	S
##	884	S
##	885	S
##	887	S
##	889	S
##	891	Q
##	2	C
##	3	S
##	9	S
##	10	C
##	18	S
##	20	C
##	22	S Q S S
##	23	Q
##	24	S
##	26	S
##	29	Q
## ##	32	C
##	33 37	Q C
##	40	C
##	44	C
##	48	Q
##	54	S
##	56	S
##	59	S
##	62	<na></na>
##	67	S
##	69	S
##	75	S
##	80	S
##	82	S
##	83	Q
##	85	S
##	86	S
##	89	S
##	98	C
##	99	S
##	107	S
##	108	S
##	110	Q

##	124	S
##	124	C
##	129	C
##	137	S
##	143	S
##	147	S
##	152	S
##	157	O O
##	162	ų S
##	166	S
##	167	S
##	173	S
##	184	S
##	188	S
##	191	S
##	193	S
##	194	S
##	194	C
##	190	Q
##	205	S S
##	208	C
##	209	Q
##	210	Q C
##	212	S
##	217	S
##	221	S
##	225	S
##	227	S
##	231	S
##	234	S
##	242	Q
##	248	S
##	256	C
##	257	C
##	258	S
##	259	C
##	260	S
##	262	S
##	268	S
##	269	S
##	272	S
##	273	S
##	275	Q
##	276	S
##	280	S
##	284	S
##	287	S
##	289	S
##	290	Q
##	291	S
##	292	С
##	299	S
##	300	С
##	301	Q

## ## ## ## ##	304 306 307 308 310 311	Q S C C C
## ##	312 316	C S
##	317	S
##	319	S
##	320	С
##	323	Q
##	324	S
##	326	С
##	329	S
##	330	С
##	331 335	Q S
##	338	C
##	341	S
##	342	S
##	346	S
##	347	S
##	348	S
##	349	S
##	357	S
##	359	Q
##	360	Q
##	367	C
##	368 369	C
##	370	Q C
##	371	С
##	376	С
##	377	S
##	381	С
##	382	С
##	384	S
##	388	S
##	390	С
##	391	S
##	394	C
## ##	395 400	S S
##	400	S
##	408	S
##	413	Q
##	415	S
##	417	S
##	418	S
##	427	S
##	428	S
##	430	S
##	431	S

шш	420	a
##	432	S
##	433	S
##	436	S
##	438	S
##	441	S
##	446	S
##	447	S
##	448	S
##	454	С
##	456	С
##	458	S
##	459	S
##	461	S
##	474	С
##	480	S
##	484	S
##	485	С
##	487	S
##	490	S
##	497	C
##	505	s s Q
##	508	S
##	511	
##	513	S S
##	517	S
##	519	S
##	521	S
##	527	S
##	531	S
##	536	S
##	538	С
##	544	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
##	547	S
##	548	С
##	551	С
##	554	С
##	555	S
##	557	С
##	570	S
##	572	S
##	574	Q
##	577	S
##	578	S
##	581	S
##	588	С
##	592	С
##	600	С
##	601	S
##	605	С
##	608	S
##	609	C
##	610	S
##	616	S
##	619	S

##	622	S
##	623	C
##	628	S
##	633	C
##	636	S
##	644	S
	645	C
##	646	C
##		S
##	650	
##	652	S
##	654	Q
##	661	S
##	665	S
##	670	S
##	671	S
##	674	S
##	678	S
##	680	С
##	682	С
##	690	S S
##	691	S
##	692	C S Q
##	693	S
##	698	Q
##	701	С
##	702	S
##	707	S
##	708	$C \mathrel{\bowtie} \mathrel{\bowtie} \mathrel{\bowtie} \mathrel{\bowtie} \mathrel{\bowtie} C \mathrel{\subseteq} C \mathrel{\bowtie} C \mathrel{\bowtie} C \mathrel{\subseteq} C$
##	709	S
##	710	С
##	711	С
##	713	S
##	717	С
##	725	S
##	728	Q
##	738	Ċ
##	741	S
##	745	S
##	751	S
##	752	S
##	755	S
##	756	S
##	760	S
##	763	C
##	764	S
##	775	S
##	780	S
##	781	C
##	787	S
##	789	S
##	798	S
##	802	S
##	804	C
##	805	S

```
## 810
              S
## 821
              S
              Q
## 829
## 830
           <NA>
              С
## 831
## 832
              S
## 836
              С
              S
## 839
              С
## 840
## 854
              S
              S
## 856
              S
## 857
              С
## 859
              S
## 863
              S
## 866
              S
## 870
              S
## 872
              С
## 875
              С
## 876
              С
## 880
## 888
              S
## 890
              С
```

dataTest

##		<pre>passenger_id</pre>	survived	pclass
##	4	4	Yes	1
##	8	8	No	3
##	11	11	Yes	3
##	12	12	Yes	1
##	14	14	No	3
##	16	16	Yes	2
##	27	27	No	3
##	30	30	No	3
##	38	38	No	3
##	45	45	Yes	3
##	49	49	No	3
##	51	51	No	3
##	53	53	Yes	1
##	57	57	Yes	2
##	64	64	No	3
##	66	66	Yes	3
##	78	78	No	3
##	79	79	Yes	2
##	84	84	No	1
##	88	88	No	3
##	90	90	No	3
##	93	93	No	1
##	94	94	No	3
##	95	95	No	3
##	105	105	No	3
##	109	109	No	3
##	114	114	No	3
##	125	125	No	1

##	128	128	Yes	3
##	134	134	Yes	2
##	135	135	No	2
##	136	136	No	2
##	142	142	Yes	3
##	144	144	No	3
##	149	149	No	2
##	163	163	No	3
##	169	169	No	1
##	175	175	No	1
##	178	178	No	1
##	181	181	No	3
##	182	182	No	2
##	185	185	Yes	3
##	187	187	Yes	3
##	195	195	Yes	1
##	203	203	No	3
##	204	204	No	3
##	215	215	No	3
##	216	216	Yes	1
##	219	219	Yes	1
##	232	232	No	3
##	237	237	No	2
##	238	238	Yes	2
##	240	240	No	2
##	241	241	No	3
##	249	249	Yes	1
##	250	250	No	2
##	253	253	No	1
##	254	254	No	3
##	255	255	No	3
##	266	266	No	2
##	270	270	Yes	1
##	277	277	No	3
##	286	286	No	3
##	298	298	No	1
##	302	302	Yes	3
##	309	309	No	2
##	318	318	No	2
##	328	328	Yes	2
##	336	336	No	3
##	339	339	Yes	3
##	340	340	No	1
##	372	372	No	3
##	392	392	Yes	3
##	393	393	No	3
##	407	407	No	3
##	409	409	No	3
##	411	411	No	3
##	421	421	No	3
##	426	426	No	3
##	437	437	No	3
##	444	444	Yes	2
##	445	445	Yes	3

				_
##	449	449	Yes	3
##	450	450	Yes	1
##	453	453	No	1
##	457	457	No	1
##	460	460	No	3
				3
##	462	462	No	
##	466	466	No	3
##	470	470	Yes	3
##	473	473	Yes	2
##	476	476	No	1
##	483	483	No	3
##	495	495	No	3
##	501	501	No	3
##	507	507	Yes	2
##				3
	510	510	Yes	
##	514	514	Yes	1
##	524	524	Yes	1
##	526	526	No	3
##	530	530	No	2
##	532	532	No	3
##	534	534	Yes	3
##	540	540	Yes	1
##	541	541	Yes	1
##	543	543		
			No	3
##	546	546	No	1
##	550	550	Yes	2
##	552	552	No	2
##	559	559	Yes	1
##	560	560	Yes	3
##	564	564	No	3
##	569	569	No	3
##	571	571	Yes	2
##	573	573	Yes	1
##				
	579	579	No	3
##	580	580	Yes	3
##	582	582	Yes	1
##	586	586	Yes	1
##	590	590	No	3
##	591	591	No	3
##	596	596	No	3
##	597	597	Yes	2
##	613	613	Yes	3
##	615	615	No	3
##	617	617	No	3
##	631	631	Yes	1
##	634	634	No	1
##	639	639	No	3
##	642	642	Yes	1
##	648	648	Yes	1
##	659	659	No	2
##	669	669	No	3
##	672	672	No	1
##	695	695	No	1
##	699	699	No	1

```
## 716
                 716
                            No
                                     3
## 718
                                     2
                 718
                           Yes
## 721
                 721
                                     2
                           Yes
                                     3
## 722
                 722
                            No
## 724
                 724
                            No
                                     2
## 727
                 727
                                     2
                           Yes
## 731
                 731
                           Yes
                                     1
## 734
                 734
                            No
                                     2
## 742
                 742
                            No
                                     1
## 743
                 743
                           Yes
                                     1
## 748
                 748
                                     2
                           Yes
## 749
                 749
                            No
                                     1
## 766
                 766
                           Yes
                                     1
## 770
                 770
                            No
                                     3
## 772
                 772
                            No
                                     3
## 778
                 778
                                     3
                           Yes
                                     3
## 779
                 779
                            No
## 782
                 782
                                     1
                           Yes
## 786
                                     3
                 786
                            No
## 790
                 790
                            No
                                     1
## 797
                 797
                           Yes
                                     1
                                     2
## 801
                 801
                            No
## 803
                 803
                           Yes
                                     1
## 806
                                     3
                 806
                            No
## 817
                 817
                            No
                                     3
## 818
                 818
                            No
                                     2
## 819
                 819
                                     3
                            No
                                     3
## 822
                 822
                           Yes
## 824
                                     3
                 824
                           Yes
                                     2
## 828
                 828
                           Yes
## 838
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                            No
                                     3
                                     3
## 841
                 841
                            No
## 843
                 843
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                           Yes
                                     3
## 845
                 845
                            No
## 850
                 850
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                           Yes
## 858
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                           Yes
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## 867
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                           Yes
## 874
                 874
                            No
                                     3
                                     3
## 877
                            No
                 877
## 881
                 881
                           Yes
                                     2
                                     3
## 882
                 882
                            No
##
  886
                 886
                                     3
                            No
##
                                                                            age sib_sp
                                                             name
                                                                      sex
## 4
                Futrelle, Mrs. Jacques Heath (Lily May Peel) female 35.00
                                                                                       1
## 8
                                Palsson, Master. Gosta Leonard
                                                                            2.00
                                                                                       3
                                                                     male
## 11
                               Sandstrom, Miss. Marguerite Rut female
                                                                           4.00
                                                                                       1
## 12
                                       Bonnell, Miss. Elizabeth female 58.00
                                                                                       0
## 14
                                   Andersson, Mr. Anders Johan
                                                                     male 39.00
                                                                                       1
## 16
                               Hewlett, Mrs. (Mary D Kingcome) female 55.00
                                                                                       0
## 27
                                        Emir, Mr. Farred Chehab
                                                                              NA
                                                                                      0
                                                                     male
## 30
                                            Todoroff, Mr. Lalio
                                                                                      0
                                                                     male
                                                                              NA
                                                                     male 21.00
## 38
                                       Cann, Mr. Ernest Charles
                                                                                      0
## 45
                                 Devaney, Miss. Margaret Delia female 19.00
                                                                                       0
```

704

704

No

3

```
## 49
                                          Samaan, Mr. Youssef
                                                                 male
## 51
                                  Panula, Master. Juha Niilo
                                                                                  4
                                                                 male
                                                                     7.00
## 53
                   Harper, Mrs. Henry Sleeper (Myna Haxtun) female 49.00
## 57
                                            Rugg, Miss. Emily female 21.00
                                                                                  0
## 64
                                        Skoog, Master. Harald
                                                                 male
                                                                       4.00
                                                                                  3
## 66
                                    Moubarek, Master. Gerios
                                                                 male
                                                                         NA
                                                                                  1
                                    Moutal, Mr. Rahamin Haim
## 78
                                                                 male
                                                                         NA
## 79
                               Caldwell, Master. Alden Gates
                                                                 male
                                                                       0.83
                                                                                  0
## 84
                                     Carrau, Mr. Francisco M
                                                                 male 28.00
                                                                                  0
## 88
                               Slocovski, Mr. Selman Francis
                                                                 male
                                                                         NA
                                                                                  0
## 90
                                      Celotti, Mr. Francesco
                                                                 male 24.00
                                                                                  0
## 93
                                 Chaffee, Mr. Herbert Fuller
                                                                 male 46.00
                                                                                  1
## 94
                                     Dean, Mr. Bertram Frank
                                                                 male 26.00
                                                                                  1
## 95
                                            Coxon, Mr. Daniel
                                                                 male 59.00
                                                                                  0
## 105
                              Gustafsson, Mr. Anders Vilhelm
                                                                 male 37.00
                                                                                  2
## 109
                                              Rekic, Mr. Tido
                                                                 male 38.00
                                                                                  0
## 114
                                     Jussila, Miss. Katriina female 20.00
                                                                                  1
## 125
                                 White, Mr. Percival Wayland
                                                                 male 54.00
## 128
                                   Madsen, Mr. Fridtjof Arne
                                                                 male 24.00
                                                                                  0
## 134
              Weisz, Mrs. Leopold (Mathilde Francoise Pede) female 29.00
## 135
                              Sobey, Mr. Samuel James Hayden
                                                                 male 25.00
                                                                                  0
## 136
                                                                 male 23.00
                                          Richard, Mr. Emile
## 142
                                    Nysten, Miss. Anna Sofia female 22.00
                                                                                  0
## 144
                                          Burke, Mr. Jeremiah
                                                                 male 19.00
## 149
                   Navratil, Mr. Michel ("Louis M Hoffman")
                                                                 male 36.50
                                                                                  0
## 163
                                  Bengtsson, Mr. John Viktor
                                                                 male 26.00
                                                                                  0
## 169
                                          Baumann, Mr. John D
                                                                                  0
                                                                 male
## 175
                                     Smith, Mr. James Clinch
                                                                 male 56.00
                                                                                  0
## 178
                                                                                  0
                                  Isham, Miss. Ann Elizabeth female 50.00
## 181
                                Sage, Miss. Constance Gladys female
                                                                                  8
## 182
                                             Pernot, Mr. Rene
                                                                         NA
                                                                                  0
## 185
                         Kink-Heilmann, Miss. Luise Gretchen female
                                                                       4.00
                                                                                  0
## 187
            O'Brien, Mrs. Thomas (Johanna "Hannah" Godfrey) female
                  Brown, Mrs. James Joseph (Margaret Tobin) female 44.00
## 195
                                                                                  0
## 203
                                  Johanson, Mr. Jakob Alfred
                                                                 male 34.00
                                                                                  0
## 204
                                         Youseff, Mr. Gerious
                                                                                  0
                                                                 male 45.50
## 215
                                         Kiernan, Mr. Philip
                                                                 male
## 216
                                     Newell, Miss. Madeleine female 31.00
                                                                                  1
## 219
                                       Bazzani, Miss. Albina female 32.00
## 232
                                    Larsson, Mr. Bengt Edvin
                                                                 male 29.00
## 237
                                            Hold, Mr. Stephen
                                                                 male 44.00
## 238
                            Collyer, Miss. Marjorie "Lottie" female 8.00
                                                                                  0
## 240
                                      Hunt, Mr. George Henry
                                                                 male 33.00
                                                                                  0
## 241
                                       Zabour, Miss. Thamine female
                                                                         NA
                                                                                  1
## 249
                               Beckwith, Mr. Richard Leonard
                                                                 male 37.00
                                                                                  1
## 250
                               Carter, Rev. Ernest Courtenay
                                                                 male 54.00
                                                                                  1
## 253
                                   Stead, Mr. William Thomas
                                                                 male 62.00
                                                                                  0
## 254
                                    Lobb, Mr. William Arthur
                                                                 male 30.00
                                                                                  1
## 255
                   Rosblom, Mrs. Viktor (Helena Wilhelmina) female 41.00
                                                                                  0
## 266
                                            Reeves, Mr. David
                                                                 male 36.00
                                                                                  0
## 270
                                                                                  0
                                      Bissette, Miss. Amelia female 35.00
## 277
                           Lindblom, Miss. Augusta Charlotta female 45.00
                                                                                  0
## 286
                                          Stankovic, Mr. Ivan
                                                                male 33.00
                                                                                 0
## 298
                                Allison, Miss. Helen Loraine female 2.00
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## 302
                                           McCoy, Mr. Bernard
                                                                 male
## 309
                                          Abelson, Mr. Samuel
                                                                 male 30.00
                                                                                  1
## 318
                                        Moraweck, Dr. Ernest
                                                                 male 54.00
                                                                                  0
## 328
                                     Ball, Mrs. (Ada E Hall) female 36.00
                                                                                  0
## 336
                                           Denkoff, Mr. Mitto
                                                                 male
                                                                         NA
                                                                                  0
                                       Dahl, Mr. Karl Edwart
## 339
                                                                 male 45.00
                                                                                  0
## 340
                                Blackwell, Mr. Stephen Weart
                                                                 male 45.00
                                   Wiklund, Mr. Jakob Alfred
## 372
                                                                 male 18.00
                                                                                  1
## 392
                                       Jansson, Mr. Carl Olof
                                                                 male 21.00
                                                                                  0
                                                                                  2
## 393
                                Gustafsson, Mr. Johan Birger
                                                                 male 28.00
## 407
                            Widegren, Mr. Carl/Charles Peter
                                                                 male 51.00
## 409
                                                                                  0
                           Birkeland, Mr. Hans Martin Monsen
                                                                 male 21.00
## 411
                                           Sdycoff, Mr. Todor
                                                                                  0
                                                                 male
                                                                         NA
## 421
                                       Gheorgheff, Mr. Stanio
                                                                 male
                                                                         NA
                                                                                  0
## 426
                                       Wiseman, Mr. Phillippe
                                                                                  0
                                                                 male
                                                                         NA
## 437
                        Ford, Miss. Doolina Margaret "Daisy" female 21.00
                                                                                  2
## 444
                                   Reynaldo, Ms. Encarnacion female 28.00
                                                                                  0
## 445
                           Johannesen-Bratthammer, Mr. Bernt
                                                                                  0
## 449
                                                                                  2
                              Baclini, Miss. Marie Catherine female
                                                                       5.00
## 450
                              Peuchen, Major. Arthur Godfrey
                                                                 male 52.00
                                                                                  0
## 453
                             Foreman, Mr. Benjamin Laventall
                                                                 male 30.00
                                                                                  0
## 457
                                   Millet, Mr. Francis Davis
                                                                 male 65.00
## 460
                                        O'Connor, Mr. Maurice
                                                                 male
                                                                                  0
                                                                         NA
## 462
                                          Morley, Mr. William
                                                                 male 34.00
                                                                                  0
## 466
                             Goncalves, Mr. Manuel Estanslas
                                                                 male 38.00
                                                                                  0
## 470
                               Baclini, Miss. Helene Barbara female
                                                                       0.75
                                                                                  2
## 473
                     West, Mrs. Edwy Arthur (Ada Mary Worth) female 33.00
                                                                                  1
## 476
                                 Clifford, Mr. George Quincy
                                                                         NA
                                                                                  0
                                                                 male
## 483
                                                                                  0
                                     Rouse, Mr. Richard Henry
                                                                 male 50.00
## 495
                                  Stanley, Mr. Edward Roland
                                                                 male 21.00
                                                                                  0
## 501
                                             Calic, Mr. Petar
                                                                 male 17.00
                                                                                  0
## 507
              Quick, Mrs. Frederick Charles (Jane Richards) female 33.00
                                                                                  0
## 510
                                               Lang, Mr. Fang
                                                                 male 26.00
## 514
             Rothschild, Mrs. Martin (Elizabeth L. Barrett) female 54.00
                                                                                  1
## 524
            Hippach, Mrs. Louis Albert (Ida Sophia Fischer) female 44.00
                                                                                  0
## 526
                                                                                  0
                                           Farrell, Mr. James
                                                                 male 40.50
## 530
                                 Hocking, Mr. Richard George
                                                                 male 23.00
                                                                                  2
## 532
                                            Toufik, Mr. Nakli
                                                                                  0
                                                                 male
                                                                         NΑ
## 534
                      Peter, Mrs. Catherine (Catherine Rizk) female
                                                                                  0
                                                                         NΑ
## 540
                          Frolicher, Miss. Hedwig Margaritha female 22.00
                                                                                  0
## 541
                                     Crosby, Miss. Harriet R female 36.00
## 543
                           Andersson, Miss. Sigrid Elisabeth female 11.00
## 546
                                Nicholson, Mr. Arthur Ernest
                                                                 male 64.00
                                                                                  0
## 550
                              Davies, Master. John Morgan Jr
                                                                 male 8.00
                                                                                  1
## 552
                                 Sharp, Mr. Percival James R
                                                                 male 27.00
## 559
                      Taussig, Mrs. Emil (Tillie Mandelbaum) female 39.00
                                                                                  1
## 560
               de Messemaeker, Mrs. Guillaume Joseph (Emma) female 36.00
                                                                                  1
## 564
                                            Simmons, Mr. John
                                                                 male
                                                                                  0
## 569
                                          Doharr, Mr. Tannous
                                                                         NΑ
                                                                                  0
                                                                 male
## 571
                                           Harris, Mr. George
                                                                 male 62.00
                                                                                  0
## 573
                            Flynn, Mr. John Irwin ("Irving")
                                                                                  0
                                                                 male 36.00
## 579
                            Caram, Mrs. Joseph (Maria Elias) female
                                                                                  1
## 580
                                          Jussila, Mr. Eiriik
                                                                 male 32.00
                                                                                  0
## 582 Thayer, Mrs. John Borland (Marian Longstreth Morris) female 39.00
```

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## 586
                                          Taussig, Miss. Ruth female 18.00
## 590
                                         Murdlin, Mr. Joseph
                                                                 male
                                                                                 0
                                                                         NΑ
## 591
                                        Rintamaki, Mr. Matti
                                                                 male 35.00
## 596
                                 Van Impe, Mr. Jean Baptiste
                                                                 male 36.00
                                                                                 1
## 597
                                  Leitch, Miss. Jessie Wills female
                                                                         NΑ
                                                                                 0
## 613
                                 Murphy, Miss. Margaret Jane female
                                                                         NA
                                                                                 1
## 615
                             Brocklebank, Mr. William Alfred
                                                                 male 35.00
                                   Danbom, Mr. Ernst Gilbert
## 617
                                                                 male 34.00
                                                                                 1
## 631
                        Barkworth, Mr. Algernon Henry Wilson
                                                                 male 80.00
                                                                                 0
## 634
                               Parr, Mr. William Henry Marsh
                                                                 male
                                                                                 0
## 639
                     Panula, Mrs. Juha (Maria Emilia Ojala) female 41.00
                                                                                 0
## 642
                                        Sagesser, Mlle. Emma female 24.00
                                                                                 0
## 648
                         Simonius-Blumer, Col. Oberst Alfons
                                                                 male 56.00
                                                                                 0
## 659
                                Eitemiller, Mr. George Floyd
                                                                 male 23.00
                                                                                 0
## 669
                                              Cook, Mr. Jacob
                                                                 male 43.00
                                                                                 0
## 672
                                      Davidson, Mr. Thornton
                                                                 male 31.00
## 695
                                                                                 0
                                              Weir, Col. John
                                                                 male 60.00
## 699
                                    Thaver, Mr. John Borland
                                                                 male 49.00
## 704
                                       Gallagher, Mr. Martin
                                                                 male 25.00
                                                                                 0
## 716
                 Soholt, Mr. Peter Andreas Lauritz Andersen
                                                                 male 19.00
                                                                                 0
## 718
                         Troutt, Miss. Edwina Celia "Winnie" female 27.00
                                                                                 0
## 721
                           Harper, Miss. Annie Jessie "Nina" female 6.00
## 722
                                   Jensen, Mr. Svend Lauritz
                                                                 male 17.00
                                                                                 1
## 724
                                                                                 0
                                     Hodges, Mr. Henry Price
                                                                 male 50.00
                                                                                 3
## 727
                Renouf, Mrs. Peter Henry (Lillian Jefferys) female 30.00
## 731
                               Allen, Miss. Elisabeth Walton female 29.00
                                                                                 0
## 734
                                  Berriman, Mr. William John
                                                                 male 23.00
                                                                                 0
## 742
                               Cavendish, Mr. Tyrell William
                                                                 male 36.00
                                                                                 1
                                                                                 2
## 743
                       Ryerson, Miss. Susan Parker "Suzette" female 21.00
## 748
                                        Sinkkonen, Miss. Anna female 30.00
                                                                                 0
## 749
                                   Marvin, Mr. Daniel Warner
                                                                 male 19.00
                                                                                 1
## 766
                       Hogeboom, Mrs. John C (Anna Andrews) female 51.00
                                                                                 1
## 770
                            Gronnestad, Mr. Daniel Danielsen
                                                                 male 32.00
                                     Jensen, Mr. Niels Peder
## 772
                                                                 male 48.00
                                                                                 0
## 778
                               Emanuel, Miss. Virginia Ethel female
                                                                                 0
                                                                       5.00
## 779
                                     Kilgannon, Mr. Thomas J
                                                                                 0
                                                                 male
                                                                         NA
## 782
                  Dick, Mrs. Albert Adrian (Vera Gillespie) female 17.00
## 786
                          Harmer, Mr. Abraham (David Lishin)
                                                                                 0
                                                                 male 25.00
## 790
                                    Guggenheim, Mr. Benjamin
                                                                 male 46.00
## 797
                                                                                 0
                                 Leader, Dr. Alice (Farnham) female 49.00
## 801
                                        Ponesell, Mr. Martin
                                                                 male 34.00
## 803
                         Carter, Master. William Thornton II
                                                                 male 11.00
                                                                                 1
## 806
                                    Johansson, Mr. Karl Johan
                                                                 male 31.00
                                                                                 0
                                                                                 0
## 817
                                Heininen, Miss. Wendla Maria female 23.00
## 818
                                          Mallet, Mr. Albert
                                                                 male 31.00
                                                                                 1
## 819
                            Holm, Mr. John Fredrik Alexander
                                                                 male 43.00
                                                                                 0
## 822
                                           Lulic, Mr. Nikola
                                                                 male 27.00
                                                                                 0
## 824
                                                                                 0
                                           Moor, Mrs. (Beila) female 27.00
                                                                      1.00
## 828
                                       Mallet, Master. Andre
                                                                 male
                                                                                 0
## 838
                                          Sirota, Mr. Maurice
                                                                 male
                                                                                 0
## 841
                                                                 male 20.00
                                                                                 0
                                 Alhomaki, Mr. Ilmari Rudolf
## 843
                                     Serepeca, Miss. Augusta female 30.00
                                                                                 0
## 845
                                          Culumovic, Mr. Jeso
                                                                 male 17.00
                                                                                 0
## 850
               Goldenberg, Mrs. Samuel L (Edwiga Grabowska) female
```

```
## 858
                                          Daly, Mr. Peter Denis
                                                                     male 51.00
## 867
                                  Duran y More, Miss. Asuncion female 27.00
                                                                                       1
                                   Vander Cruyssen, Mr. Victor
## 874
                                                                     male 47.00
                                                                                       0
## 877
                                 Gustafsson, Mr. Alfred Ossian
                                                                     male 20.00
                                                                                       0
## 881
                Shelley, Mrs. William (Imanita Parrish Hall) female 25.00
                                                                                       0
## 882
                                             Markun, Mr. Johann
                                                                                       0
                                                                     male 33.00
##
   886
                         Rice, Mrs. William (Margaret Norton) female 39.00
##
       parch
                            ticket
                                        fare
                                                         cabin embarked
## 4
            0
                            113803
                                    53.1000
                                                          C123
                                                                       S
## 8
                            349909
                                     21.0750
                                                                       S
            1
                                                          <NA>
## 11
            1
                          PP 9549
                                     16.7000
                                                            G6
                                                                       S
                                                                       S
## 12
            0
                            113783
                                     26.5500
                                                          C103
                                                                       S
## 14
            5
                            347082
                                     31,2750
                                                          <NA>
                                                                       S
## 16
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                            248706
                                     16.0000
                                                          <NA>
## 27
            0
                              2631
                                      7.2250
                                                          <NA>
                                                                       C
                                                                       S
## 30
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                                                          <NA>
## 38
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                       A./5. 2152
                                                                       S
                                      8.0500
                                                          <NA>
## 45
            0
                            330958
                                      7.8792
                                                          <NA>
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## 49
            0
                              2662
                                    21.6792
                                                          <NA>
                                                                       C
## 51
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            1
                           3101295
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## 53
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                                    76.7292
                                                           D33
                                                                       C
## 57
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                       C.A. 31026
                                     10.5000
                                                          <NA>
                                                                       S
                                                                       S
## 64
            2
                            347088
                                    27.9000
                                                          <NA>
## 66
            1
                              2661
                                     15.2458
                                                          <NA>
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                                                                       S
## 78
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## 79
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## 84
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## 88
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                  SOTON/OQ 392086
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                                      8.0500
                                                          <NA>
                                                                       S
## 90
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                                      8.0500
                                                          <NA>
## 93
                                                                       S
            0
                      W.E.P. 5734
                                     61.1750
                                                           E31
                                                                       S
## 94
            2
                        C.A. 2315
                                     20.5750
                                                          < NA >
## 95
            0
                            364500
                                      7.2500
                                                          <NA>
                                                                       S
## 105
                                                                       S
            0
                           3101276
                                      7.9250
                                                          <NA>
## 109
            0
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                                      7.8958
                                                          <NA>
                                                                       S
                                                                       S
## 114
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                                                          <NA>
## 125
                             35281
                                    77.2875
                                                           D26
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## 128
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                           C 17369
                                      7.1417
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## 134
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## 135
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                       C.A. 29178
                                     13.0000
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## 136
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                    SC/PARIS 2133
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                                                          <NA>
## 142
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## 144
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## 149
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## 163
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            0
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## 169
                         PC 17318
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                                                                       С
## 175
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## 178
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            0
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                                                           C49
## 181
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## 182
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                                                          <NA>
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## 204
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	237	0	26707	26.0000	<na></na>	S
	238	2	C.A. 31921	26.2500	<na></na>	S
	240	0	SCO/W 1585	12.2750	<na></na>	S
	241	0	2665	14.4542	<na></na>	C
	249	1	11751	52.5542	D35	S
	250	0	244252	26.0000	<na></na>	S
	253	0	113514	26.5500	C87	S
	254	0	A/5. 3336	16.1000	<na></na>	S
	255	2	370129	20.2125	<na></na>	S
	266	0	C.A. 17248	10.5000	<na></na>	S
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	277	0	347073	7.7500	<na></na>	S
	286	0	349239	8.6625	<na></na>	C
	298	2		151.5500	C22 C26	S
	302	0	367226	23.2500	<na></na>	Q
	309	0	P/PP 3381	24.0000	<na></na>	C
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	328	0	28551	13.0000	D	S
	336	0	349225	7.8958	<na></na>	S
	339	0	7598	8.0500	<na></na>	S
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	372	0	3101267	6.4958	<na></na>	S
	392	0	350034	7.7958	<na></na>	S
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	411	0	349222	7.8958	<na></na>	S
	421	0	349254	7.8958	<na></na>	C
	426	0	A/4. 34244	7.2500	<na></na>	S
	437	2	W./C. 6608	34.3750	<na></na>	S
	444	0	230434	13.0000	<na></na>	S
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	449	1	2666	19.2583	<na></na>	C
	450	0	113786	30.5000	C104	S
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	473	2	C.A. 34651	27.7500	<na></na>	S
	476		110465	52.0000	A14	S
	483 495	0	A/5 3594	8.0500	<na></na>	S
		0	A/4 45380	8.0500	<na></na>	S
	501	0	315086	8.6625	<na></na>	S
	507 510	2	26360	26.0000	<na></na>	S S
	510 514	0	1601 PC 17603	56.4958 59.4000	<na></na>	S C
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	540	2	13568	49.5000	B39	C
	541	2	WE/P 5735	71.0000	B22	S
	543	2	347082	31.2750	<na></na>	S
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	550	1	C.A. 33112	36.7500	<na></na>	S
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	559	1	110413	79.6500	E67	S
	560	0	345572	17.4000	<na></na>	S
	564	0	SOTON/OQ 392082	8.0500	<na></na>	S
	569	0	2686	7.2292	<na></na>	C
	571	0	S.W./PP 752	10.5000	<na></na>	S
	573	0	PC 17474	26.3875	E25	S
	579	0	2689	14.4583	<na></na>	C
	580	0	STON/O 2. 3101286	7.9250	<na></na>	S
	582 586	1 2	17421 110413	110.8833	C68	C S
	590			79.6500	E68 <na></na>	S S
	590	0	A./5. 3235	8.0500	<na></na>	S S
	596	0 1	STON/O 2. 3101273 345773	7.1250 24.1500	<na></na>	S S
	597	0	248727	33.0000	<na></na>	S
	613	0	367230	15.5000	<na></na>	Q Q
	615	0	364512	8.0500	<na></na>	S
	617	1	347080	14.4000	<na></na>	S
	631	0	27042	30.0000	A23	S
	634	0	112052	0.0000	<na></na>	S
	639	5	3101295	39.6875	<na></na>	S
	642	0	PC 17477	69.3000	B35	C
	648	0	13213	35.5000	A26	C
	659	0	29751	13.0000	<na></na>	S
	669	0	A/5 3536	8.0500	<na></na>	S
	672	0	F.C. 12750	52.0000	B71	S
	695	0	113800	26.5500	<na></na>	S
	699	1	17421	110.8833	C68	C
	704	0	36864	7.7417	<na></na>	Q
	716	0	348124	7.6500	F G73	S
	718	0	34218	10.5000	E101	S
	721	1	248727	33.0000	<na></na>	S
	722	0	350048	7.0542	<na></na>	S
	724	0	250643	13.0000	<na></na>	S
	727	0	31027	21.0000	<na></na>	S
##	731	0		211.3375	B5	S
##	734	0	28425	13.0000	<na></na>	S
##	742	0	19877	78.8500	C46	S
##	743	2	PC 17608	262.3750	B57 B59 B63 B66	C
##	748	0	250648	13.0000	<na></na>	S
##	749	0	113773	53.1000	D30	S
##	766	0	13502	77.9583	D11	S
##	770	0	8471	8.3625	<na></na>	S
##	772	0	350047	7.8542	<na></na>	S
##	778	0	364516	12.4750	<na></na>	S
##	779	0	36865	7.7375	<na></na>	Q

##	782	0	17474	57.0000	B20	S
##	786	0	374887	7.2500	<na></na>	S
##	790	0	PC 17593	79.2000	B82 B84	С
##	797	0	17465	25.9292	D17	S
##	801	0	250647	13.0000	<na></na>	S
##	803	2	113760	120.0000	B96 B98	S
##	806	0	347063	7.7750	<na></na>	S
##	817	0	STON/02. 3101290	7.9250	<na></na>	S
##	818	1	S.C./PARIS 2079	37.0042	<na></na>	C
##	819	0	C 7075	6.4500	<na></na>	S
##	822	0	315098	8.6625	<na></na>	S
##	824	1	392096	12.4750	E121	S
##	828	2	S.C./PARIS 2079	37.0042	<na></na>	C
##	838	0	392092	8.0500	<na></na>	S
##	841	0	SOTON/02 3101287	7.9250	<na></na>	S
##	843	0	113798	31.0000	<na></na>	C
##	845	0	315090	8.6625	<na></na>	S
##	850	0	17453	89.1042	C92	C
##	858	0	113055	26.5500	E17	S
##	867	0	SC/PARIS 2149	13.8583	<na></na>	C
##	874	0	345765	9.0000	<na></na>	S
##	877	0	7534	9.8458	<na></na>	S
##	881	1	230433	26.0000	<na></na>	S
##	882	0	349257	7.8958	<na></na>	S
##	886	5	382652	29.1250	<na></na>	Q

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

We want to use stratified sampling for this data because there is an uneven proportion of passengers who survived and who died. Thus we want the models we train to train on the correct proportion of survivors and non-survivors relative to the total dataset.

Question 2

2

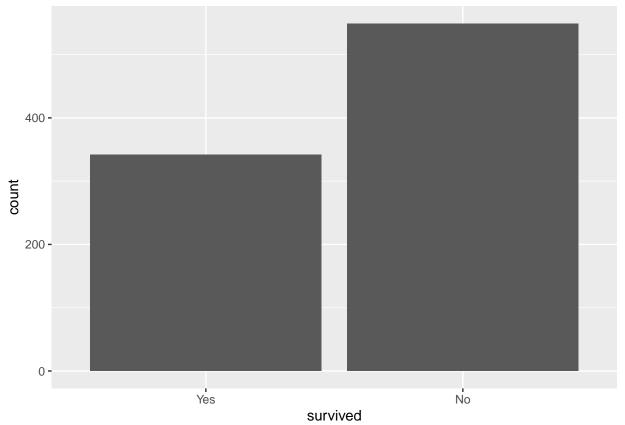
No 439

0.616573

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

```
counts <- data.frame(count(dataTrain, survived))</pre>
counts
##
     survived
## 1
          Yes 273
## 2
           No 439
sum(counts$n)
## [1] 712
counts %>% mutate(percentage = n/sum(n))
##
     survived
                 n percentage
## 1
          Yes 273
                     0.383427
```

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



Out of 712 recorded passengers on the Titanic, 439 or 61.6% did not survive, while 273 (38.3%) did survive.

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?

We see the pairs (age, sib_sp) and (age, parch) slightly negatively correlated, and (sib_sp, parch), (fare, sib_sp), and (fare, parch) slightly positively correlated.

```
names(dataTrain)

## [1] "passenger_id" "survived" "pclass" "name" "sex"

## [6] "age" "sib_sp" "parch" "ticket" "fare"

## [11] "cabin" "embarked"

dataTrain
```

```
## passenger_id survived pclass
## 1 1 No 3
## 5 5 No 3
```

				_
##	6	6	No	3
##	7	7	No	1
##	13	13	No	3
##	15	15	No	3
##	17	17	No	3
##	19	19	No	3
##	21	21	No	2
##	25	25	No	3
##	28	28	No	1
##	31	31	No	1
##	34	34	No	2
##	35	35	No	1
##	36	36	No	1
##	39	39	No	3
##	41	41	No	3
##	42	42	No	2
##	43	43	No	3
##	46	46	No	3
##	47	47	No	3
##	50	50	No	3
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##	55	55	No	1
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##	68	68	No	3
##	70	70	No	3
##	71	71	No	2
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##	74	74	No	3
##	76	76 	No	3
##	77	77	No	3
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##	91	91	No	3
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##	103	103	No	1
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##	329	329	Yes	3
##	330	330	Yes	1
##	331	331	Yes	3
##	335	335	Yes	1
##	338	338	Yes	1
##	341	341	Yes	2
##	342	342	Yes	1
##	346	346	Yes	2
##	347	347	Yes	2
##	348	348	Yes	3
##	349	349	Yes	3
##	357	357	Yes	1
##	359	359	Yes	3
##	360			3
		360	Yes	
##	367	367	Yes	1
##	368	368	Yes	3
##	369	369	Yes	3
##	370	370	Yes	1
##	371	371	Yes	1
##	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
##	391	391	Yes	1
##	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
##	428	428	Yes	2
##	430	430	Yes	3
##	431	431	Yes	1
##	432	432	Yes	3
##	433	433	Yes	2
##	436	436	Yes	
##	438	438		1 2
##			Yes	
	441	441	Yes	2
##	446	446	Yes	1
##	447	447	Yes	2
##	448	448	Yes	1
##	454	454	Yes	1
##	456	456	Yes	3
##	458	458	Yes	1
##	459	459	Yes	2
##	461	461	Yes	1
##	474	474	Yes	2

##	480	480	Yes	3
##	484	484	Yes	3
##	485	485	Yes	1
##	487	487	Yes	1
##	490	490	Yes	3
##	497	497	Yes	1
##	505	505	Yes	1
##	508	508	Yes	1
##	511	511	Yes	3
##	513	513	Yes	1
##	517	517	Yes	2
##	519	519	Yes	2
##	521	521	Yes	1
##	527	527	Yes	2
##	531	531	Yes	2
##	536	536	Yes	2
##	538	538	Yes	1
##	544	544		2
##	547		Yes	2
	54 <i>1</i> 548	547	Yes	
##		548	Yes	2
##	551	551	Yes	1
##	554	554	Yes	3
##	555	555	Yes	3
##	557	557	Yes	1
##	570	570	Yes	3
##	572	572	Yes	1
##	574	574	Yes	3
##	577	577	Yes	2
##	578	578	Yes	1
##	581	581	Yes	2
##	588	588	Yes	1
##	592	592	Yes	1
##	600	600	Yes	1
##	601	601	Yes	2
##	605	605	Yes	1
##	608	608	Yes	1
##	609	609	Yes	2
##	610	610	Yes	1
##	616	616	Yes	2
##	619	619	Yes	2
##	622	622	Yes	1
##	623	623	Yes	3
##	628	628	Yes	1
##	633	633	Yes	1
##	636	636	Yes	2
##	644	644	Yes	3
##	645	645	Yes	3
##	646	646	Yes	1
##	650	650	Yes	3
##	652	652	Yes	2
##	654	654	Yes	3
##	661	661	Yes	1
##	665	665	Yes	3
##	670	670	Yes	1
ırπ	510	5.5	105	-

##	671	671	Yes	2
##	674	674	Yes	2
##	678	678	Yes	3
##	680	680	Yes	1
##	682	682	Yes	1
##	690	690	Yes	1
##	691	691	Yes	1
##	692	692	Yes	3
##	693	693	Yes	3
##	698	698	Yes	3
##	701	701	Yes	1
##	702	702	Yes	1
##	707	707	Yes	2
##	708	708	Yes	1
##	709	709	Yes	1
##	710	710	Yes	3
##	711	711	Yes	1
##	713	713	Yes	1
##	717	717	Yes	1
##	725	725	Yes	1
##	728	728	Yes	3
##	738	738	Yes	1
##	741	741	Yes	1
##	745	745	Yes	3
##	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
##	780	780	Yes	1
##	781	781	Yes	3
##	787	787	Yes	3
##	789	789	Yes	3
##	798	798	Yes	3
##	802	802	Yes	2
##	804	804	Yes	3
##	805	805	Yes	3
##	810	810	Yes	1
##	821	821	Yes	1
##	829	829	Yes	3
##	830	830	Yes	1
##	831	831	Yes	3
##	832	832	Yes	2
##	836	836	Yes	1
##	839	839	Yes	3
##	840	840	Yes	1
##	854	854	Yes	1
##	856	856	Yes	3
##	857	857	Yes	1
##	859	859	Yes	3
##	863	863	Yes	1

##	866	866	Yes	2
	870	870	Yes	3
	872	872	Yes	1
##	875	875	Yes	2
##	876	876	Yes	3
##	880	880	Yes	1
##	888	888	Yes	1
##	890	890	Yes	1
##				name
##	1			Braund, Mr. Owen Harris
##	5			Allen, Mr. William Henry
##				Moran, Mr. James
##				McCarthy, Mr. Timothy J
##				Saundercock, Mr. William Henry
##				Vestrom, Miss. Hulda Amanda Adolfina
##				Rice, Master. Eugene
##				Vander Planke, Mrs. Julius (Emelia Maria Vandemoortele)
## ##				Fynney, Mr. Joseph J
##				Palsson, Miss. Torborg Danira Fortune, Mr. Charles Alexander
##				Uruchurtu, Don. Manuel E
##				Wheadon, Mr. Edward H
##				Meyer, Mr. Edgar Joseph
##				Holverson, Mr. Alexander Oskar
##				Vander Planke, Miss. Augusta Maria
##	41			Ahlin, Mrs. Johan (Johanna Persdotter Larsson)
##	42			Turpin, Mrs. William John Robert (Dorothy Ann Wonnacott)
##	43			Kraeff, Mr. Theodor
##	46			Rogers, Mr. William John
##	47			Lennon, Mr. Denis
##	50			Arnold-Franchi, Mrs. Josef (Josefine Franchi)
##				Nosworthy, Mr. Richard Cater
##				Ostby, Mr. Engelhart Cornelius
##				Novel, Mr. Mansouer
##				Goodwin, Master. William Frederick
##				Sirayanian, Mr. Orsen
## ##				Harris, Mr. Henry Birkhardt
##				Stewart, Mr. Albert A Crease, Mr. Ernest James
##				Kink, Mr. Vincenz
##				Jenkin, Mr. Stephen Curnow
##				Goodwin, Miss. Lillian Amy
##				Hood, Mr. Ambrose Jr
##				Chronopoulos, Mr. Apostolos
##	76			Moen, Mr. Sigurd Hansen
##	77			Staneff, Mr. Ivan
##	81			Waelens, Mr. Achille
##	87			Ford, Mr. William Neal
##	91			Christmann, Mr. Emil
##				Andreasson, Mr. Paul Edvin
##				Shorney, Mr. Charles Joseph
##				Goldschmidt, Mr. George B
	100			Kantor, Mr. Sinai
##	101			Petranec, Miss. Matilda

##	102	Petroff, Mr. Pastcho ("Pentcho")
##	103	White, Mr. Richard Frasar
##	104	Johansson, Mr. Gustaf Joel
##	106	Mionoff, Mr. Stoytcho
##	111	Porter, Mr. Walter Chamberlain
##	112	Zabour, Miss. Hileni
##	113	Barton, Mr. David John
##	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
	127	McMahon, Mr. Martin
	130	Ekstrom, Mr. Johan
	131	Drazenoic, Mr. Jozef
	132	Coelho, Mr. Domingos Fernandeo
	133	Robins, Mrs. Alexander A (Grace Charity Laury)
	138	Futrelle, Mr. Jacques Heath
	139	Osen, Mr. Olaf Elon
	140	Giglio, Mr. Victor
	141	Boulos, Mrs. Joseph (Sultana)
	145	Andrew, Mr. Edgardo Samuel
	146	Nicholls, Mr. Joseph Charles
	148	Ford, Miss. Robina Maggie "Ruby"
	150	Byles, Rev. Thomas Roussel Davids
	151	Bateman, Rev. Robert James
	153	Meo, Mr. Alfonzo
	154	van Billiard, Mr. Austin Blyler
	155	Olsen, Mr. Ole Martin
	156	Williams, Mr. Charles Duane
	158	Corn, Mr. Harry
	159	Smiljanic, Mr. Mile
	160	Sage, Master. Thomas Henry
	161	Cribb, Mr. John Hatfield
	164	Calic, Mr. Jovo
	165	Panula, Master. Eino Viljami
	168	Skoog, Mrs. William (Anna Bernhardina Karlsson)
	170	Ling, Mr. Lee
	171	Van der hoef, Mr. Wyckoff
	172	Rice, Master. Arthur
	174	Sivola, Mr. Antti Wilhelm
	176	Klasen, Mr. Klas Albin
	177	Lefebre, Master. Henry Forbes
	179	Hale, Mr. Reginald
	180	Leonard, Mr. Lionel
	183	Asplund, Master. Clarence Gustaf Hugo
	186	Rood, Mr. Hugh Roscoe
	189	Bourke, Mr. John
	190	Turcin, Mr. Stjepan
	192	Carbines, Mr. William
ππ	102	Caronnes, mr. william

##	197	Mernagh, Mr. Robert
##	198	Olsen, Mr. Karl Siegwart Andreas
##	200	Yrois, Miss. Henriette ("Mrs Harbeck")
##	201	Vande Walle, Mr. Nestor Cyriel
##	202	Sage, Mr. Frederick
##	206	Strom, Miss. Telma Matilda
##	207	Backstrom, Mr. Karl Alfred
##	211	Ali, Mr. Ahmed
	213	Perkin, Mr. John Henry
##	214	Givard, Mr. Hans Kristensen
##	218	Jacobsohn, Mr. Sidney Samuel
##	220	Harris, Mr. Walter
##	222	Bracken, Mr. James H
##	223	Green, Mr. George Henry
##	224	Nenkoff, Mr. Christo
##	226	Berglund, Mr. Karl Ivar Sven
##	228	Lovell, Mr. John Hall ("Henry")
##	229	Fahlstrom, Mr. Arne Jonas
##	230	Lefebre, Miss. Mathilde
	233	Sjostedt, Mr. Ernst Adolf
##	235	Leyson, Mr. Robert William Norman
##	236	Harknett, Miss. Alice Phoebe
##	239	Pengelly, Mr. Frederick William
##	243	Coleridge, Mr. Reginald Charles
##	244	Maenpaa, Mr. Matti Alexanteri
##	245	Attalah, Mr. Sleiman
##	246	Minahan, Dr. William Edward
##	247	Lindahl, Miss. Agda Thorilda Viktoria
##	251	Reed, Mr. James George
##	252	Strom, Mrs. Wilhelm (Elna Matilda Persson)
##	261	Smith, Mr. Thomas
##	263	Taussig, Mr. Emil
##	264	Harrison, Mr. William
##	265	Henry, Miss. Delia
##	267	Panula, Mr. Ernesti Arvid
##	271	Cairns, Mr. Alexander
##	274	Natsch, Mr. Charles H
##	278	Parkes, Mr. Francis "Frank"
##	279	Rice, Master. Eric
##	281	Duane, Mr. Frank
##	282	Olsson, Mr. Nils Johan Goransson
##	283	de Pelsmaeker, Mr. Alfons
##	285	Smith, Mr. Richard William
##	288	Naidenoff, Mr. Penko
##	293	Levy, Mr. Rene Jacques
##	294	Haas, Miss. Aloisia
##	295	Mineff, Mr. Ivan
##	296	Lewy, Mr. Ervin G
##	297	Hanna, Mr. Mansour
##	303	Johnson, Mr. William Cahoone Jr
##	305	Williams, Mr. Howard Hugh "Harry"
##	313	Lahtinen, Mrs. William (Anna Sylfven)
##	314	Hendekovic, Mr. Ignjac
##	315	Hart, Mr. Benjamin

## 3		Dennis, Mr. Samuel
## 3	322	Danoff, Mr. Yoto
## 3	325	Sage, Mr. George John Jr
## 3	327	Nysveen, Mr. Johan Hansen
## 3	332	Partner, Mr. Austen
## 3	333	Graham, Mr. George Edward
## 3	334	Vander Planke, Mr. Leo Edmondus
## 3	337	Pears, Mr. Thomas Clinton
## 3		Collander, Mr. Erik Gustaf
## 3	344	Sedgwick, Mr. Charles Frederick Waddington
## 3	345	Fox, Mr. Stanley Hubert
## 3	350	Dimic, Mr. Jovan
## 3	351	Odahl, Mr. Nils Martin
## 3	352	Williams-Lambert, Mr. Fletcher Fellows
## 3	353	Elias, Mr. Tannous
## 3	354	Arnold-Franchi, Mr. Josef
## 3	355	Yousif, Mr. Wazli
## 3	356	Vanden Steen, Mr. Leo Peter
## 3	358	Funk, Miss. Annie Clemmer
## 3		Skoog, Mr. Wilhelm
## 3	362	del Carlo, Mr. Sebastiano
## 3	363	Barbara, Mrs. (Catherine David)
## 3		Asim, Mr. Adola
## 3		O'Brien, Mr. Thomas
## 3		Adahl, Mr. Mauritz Nils Martin
## 3		Beavan, Mr. William Thomas
## 3		Ringhini, Mr. Sante
## 3		Palsson, Miss. Stina Viola
## 3	378	Widener, Mr. Harry Elkins
## 3	379	Betros, Mr. Tannous
## 3		Gustafsson, Mr. Karl Gideon
## 3	383	Tikkanen, Mr. Juho
## 3	385	Plotcharsky, Mr. Vasil
## 3	386	Davies, Mr. Charles Henry
## 3		Goodwin, Master. Sidney Leonard
## 3	389	Sadlier, Mr. Matthew
## 3	396	Johansson, Mr. Erik
## 3		Olsson, Miss. Elina
## 3		McKane, Mr. Peter David
## 3		Pain, Dr. Alfred
## 4	402	Adams, Mr. John
## 4		Jussila, Miss. Mari Aina
## 4		Hakkarainen, Mr. Pekka Pietari
## 4		Oreskovic, Miss. Marija
## 4		Gale, Mr. Shadrach
## 4		Lefebre, Miss. Ida
## 4		Hart, Mr. Henry
## 4		Cunningham, Mr. Alfred Fleming
## 4		Meek, Mrs. Thomas (Annie Louise Rowley)
## 4		Matthews, Mr. William John
## 4		Van Impe, Miss. Catharina
## 4		Charters, Mr. David
## 4		Zimmerman, Mr. Leo
## 4		Mrs. Ernst Gilbert (Anna Sigrid Maria Brogren)
1	zz z	Lines dilecte (a biglia haria bioglon)

##	425	Rosblom, Mr. Viktor Richard
##	429	Flynn, Mr. James
##	434	Kallio, Mr. Nikolai Erland
##	435	Silvey, Mr. William Baird
##	439	Fortune, Mr. Mark
##	440	Kvillner, Mr. Johan Henrik Johannesson
##	442	Hampe, Mr. Leon
##	443	Petterson, Mr. Johan Emil
##	451	West, Mr. Edwy Arthur
##	452	Hagland, Mr. Ingvald Olai Olsen
##	455	Peduzzi, Mr. Joseph
##	463	Gee, Mr. Arthur H
	464	Milling, Mr. Jacob Christian
	465	Maisner, Mr. Simon
	467	Campbell, Mr. William
	468	Smart, Mr. John Montgomery
	469	Scanlan, Mr. James
	471	Keefe, Mr. Arthur
	472	Cacic, Mr. Luka
	475	Strandberg, Miss. Ida Sofia
	477	Renouf, Mr. Peter Henry
	478	Braund, Mr. Lewis Richard
	479	Karlsson, Mr. Nils August
	481	Goodwin, Master. Harold Victor
	482	Frost, Mr. Anthony Wood "Archie"
	486	Lefebre, Miss. Jeannie
	488	Kent, Mr. Edward Austin
	489	Somerton, Mr. Francis William
	491 492	Hagland, Mr. Konrad Mathias Reiersen
	493	Windelov, Mr. Einar Molson, Mr. Harry Markland
	494	Artagaveytia, Mr. Ramon
	496	Yousseff, Mr. Gerious
	498	Shellard, Mr. Frederick William
	499	Allison, Mrs. Hudson J C (Bessie Waldo Daniels)
	500	Svensson, Mr. Olof
	502	Canavan, Miss. Mary
	503	O'Sullivan, Miss. Bridget Mary
	504	Laitinen, Miss. Kristina Sofia
	506	Penasco y Castellana, Mr. Victor de Satode
	509	Olsen, Mr. Henry Margido
	512	Webber, Mr. James
	515	Coleff, Mr. Satio
##	516	Walker, Mr. William Anderson
##	518	Ryan, Mr. Patrick
##	520	Pavlovic, Mr. Stefo
##	522	Vovk, Mr. Janko
##	523	Lahoud, Mr. Sarkis
##	525	Kassem, Mr. Fared
##	528	Farthing, Mr. John
##	529	Salonen, Mr. Johan Werner
	533	Elias, Mr. Joseph Jr
	535	Cacic, Miss. Marija
##	537	Butt, Major. Archibald Willingham

	539	Risien, Mr. Samuel Beard
	542	Andersson, Miss. Ingeborg Constanzia
	545	Douglas, Mr. Walter Donald
	549 553	Goldsmith, Mr. Frank John
	556	O'Brien, Mr. Timothy
	558	Wright, Mr. George
	561	Robbins, Mr. Victor Morrow, Mr. Thomas Rowan
	562	Sivic, Mr. Husein
	563	Norman, Mr. Robert Douglas
	565	Meanwell, Miss. (Marion Ogden)
	566	Davies, Mr. Alfred J
##	567	Stoytcheff, Mr. Ilia
##	568	Palsson, Mrs. Nils (Alma Cornelia Berglund)
##	575	Rush, Mr. Alfred George John
##	576	Patchett, Mr. George
##	583	Downton, Mr. William James
##	584	Ross, Mr. John Hugo
##	585	Paulner, Mr. Uscher
	587	Jarvis, Mr. John Denzil
	589	Gilinski, Mr. Eliezer
	593	Elsbury, Mr. William James
	594	Bourke, Miss. Mary
	595	Chapman, Mr. John Henry
	598	Johnson, Mr. Alfred
	599 602	Boulos, Mr. Hanna
	603	Slabenoff, Mr. Petco Harrington, Mr. Charles H
	604	Torber, Mr. Ernst William
	606	Lindell, Mr. Edvard Bengtsson
	607	Karaic, Mr. Milan
	611	Andersson, Mrs. Anders Johan (Alfrida Konstantia Brogren)
##	612	Jardin, Mr. Jose Neto
##	614	Horgan, Mr. John
##	618	Lobb, Mrs. William Arthur (Cordelia K Stanlick)
##	620	Gavey, Mr. Lawrence
	621	Yasbeck, Mr. Antoni
	624	Hansen, Mr. Henry Damsgaard
	625	Bowen, Mr. David John "Dai"
	626	Sutton, Mr. Frederick
	627	Kirkland, Rev. Charles Leonard
	629	Bostandyeff, Mr. Guentcho
	630 632	O'Connell, Mr. Patrick D Lundahl, Mr. Johan Svensson
	635 637	Skoog, Miss. Mabel Leinonen, Mr. Antti Gustaf
	638	Collyer, Mr. Harvey
	640	Thorneycroft, Mr. Percival
	641	Jensen, Mr. Hans Peder
	643	Skoog, Miss. Margit Elizabeth
	647	Cor, Mr. Liudevit
	649	Willey, Mr. Edward
	651	Mitkoff, Mr. Mito
	653	Kalvik, Mr. Johannes Halvorsen

## 6		Hegarty, Miss. Hanora "Nora"
## 6		Hickman, Mr. Leonard Mark
## 6	657	Radeff, Mr. Alexander
## 6	658	Bourke, Mrs. John (Catherine)
## 6	660	Newell, Mr. Arthur Webster
## 6	662	Badt, Mr. Mohamed
## 6	663	Colley, Mr. Edward Pomeroy
## 6	664	Coleff, Mr. Peju
## 6	666	Hickman, Mr. Lewis
## 6	667	Butler, Mr. Reginald Fenton
## 6		Rommetvedt, Mr. Knud Paust
## 6		Mitchell, Mr. Henry Michael
## 6		Watson, Mr. Ennis Hastings
## 6		Edvardsson, Mr. Gustaf Hjalmar
## 6		Sawyer, Mr. Frederick Charles
## 6		Goodwin, Mrs. Frederick (Augusta Tyler)
## 6		Peters, Miss. Katie
## 6		Olsvigen, Mr. Thor Anderson
## 6		Goodwin, Mr. Charles Edward
## 6		Brown, Mr. Thomas William Solomon
## 6		Laroche, Mr. Joseph Philippe Lemercier
## 6		Panula, Mr. Jaako Arnold
## 6		Dakic, Mr. Branko
## 6		Fischer, Mr. Eberhard Thelander
## 6		Saad, Mr. Khalil
## 6		Chapman, Mr. Charles Henry
## 6		Kelly, Mr. James
## 7		Humblen, Mr. Adolf Mathias Nicolai Olsen
## 7		Barbara, Miss. Saiide
## 7		Hansen, Mr. Henrik Juul
## 7		Morley, Mr. Henry Samuel ("Mr Henry Marshall")
## 7		
## 7		Klaber, Mr. Herman Larsson, Mr. August Viktor
## 7		<u> </u>
		Greenberg, Mr. Samuel
## 7 ## 7		McEvoy, Mr. Michael Johnson, Mr. Malkolm Joackim
## 7		·
		Gillespie, Mr. William Henry
## 7		Oreskovic, Mr. Luka
## 7		Bryhl, Mr. Kurt Arnold Gottfrid
## 7		Ilmakangas, Miss. Pieta Sofia
## 7		Hassan, Mr. Houssein G N
## 7		Knight, Mr. Robert J
## 7		Troupiansky, Mr. Moses Aaron
## 7		Williams, Mr. Leslie
## 7		Ford, Mrs. Edward (Margaret Ann Watson)
## 7		Ivanoff, Mr. Kanio
## 7		Nankoff, Mr. Minko
## 7		McNamee, Mr. Neal
## 7		Crosby, Capt. Edward Gifford
## 7		Abbott, Mr. Rossmore Edward
## 7		Connaghton, Mr. Michael
## 7		Vande Velde, Mr. Johannes Joseph
## 7		Jonkoff, Mr. Lalio
## 7	757	Carlsson, Mr. August Sigfrid

## 758	Bailey, Mr. Percy Andrew
## 759	Theobald, Mr. Thomas Leonard
## 761	Garfirth, Mr. John
## 762	Nirva, Mr. Iisakki Antino Aijo
## 765	Eklund, Mr. Hans Linus
## 767	Brewe, Dr. Arthur Jackson
## 768	Mangan, Miss. Mary
## 769	Moran, Mr. Daniel J
## 771	Lievens, Mr. Rene Aime
## 773	Mack, Mrs. (Mary)
## 774 ## 776	Elias, Mr. Dibo
## 776 ## 777	Myhrman, Mr. Pehr Fabian Oliver Malkolm
## 777 ## 783	Tobin, Mr. Roger Long, Mr. Milton Clyde
## 784	Johnston, Mr. Andrew G
## 785	Ali, Mr. William
## 788	Rice, Master. George Hugh
## 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
## 799	Ibrahim Shawah, Mr. Yousseff
## 800	Van Impe, Mrs. Jean Baptiste (Rosalie Paula Govaert)
## 807	Andrews, Mr. Thomas Jr
## 808	Pettersson, Miss. Ellen Natalia
## 809	Meyer, Mr. August
## 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
## 820	Skoog, Master. Karl Thorsten
## 823	Reuchlin, Jonkheer. John George
## 825	Panula, Master. Urho Abraham
## 826 ## 827	Flynn, Mr. John
## 827 ## 833	Lam, Mr. Len Saad, Mr. Amin
## 834	Augustsson, Mr. Albert
## 835	Allum, Mr. Owen George
## 837	Pasic, Mr. Jakob
## 842	Mudd, Mr. Thomas Charles
## 844	Lemberopolous, Mr. Peter L
## 846	Abbing, Mr. Anthony
## 847	Sage, Mr. Douglas Bullen
## 848	Markoff, Mr. Marin
## 849	Harper, Rev. John
## 851	Andersson, Master. Sigvard Harald Elias
## 852	Svensson, Mr. Johan
## 853	Boulos, Miss. Nourelain
## 855	Carter, Mrs. Ernest Courtenay (Lilian Hughes)
## 860	Razi, Mr. Raihed

##	861	Hansen, Mr. Claus Peter
##	862	Giles, Mr. Frederick Edward
##	864	Sage, Miss. Dorothy Edith "Dolly"
	865	Gill, Mr. John William
##	868	Roebling, Mr. Washington Augustus II
##	869	van Melkebeke, Mr. Philemon
##	871	Balkic, Mr. Cerin
##	873	Carlsson, Mr. Frans Olof
	878	Petroff, Mr. Nedelio
	879	Laleff, Mr. Kristo
	883	Dahlberg, Miss. Gerda Ulrika
	884	Banfield, Mr. Frederick James
	885	Sutehall, Mr. Henry Jr
##	887	Montvila, Rev. Juozas
##	889	Johnston, Miss. Catherine Helen "Carrie"
##	891	Dooley, Mr. Patrick
##	2	Cumings, Mrs. John Bradley (Florence Briggs Thayer)
##	3	Heikkinen, Miss. Laina
##	9	Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)
##	10	Nasser, Mrs. Nicholas (Adele Achem)
##	18	Williams, Mr. Charles Eugene
##	20	Masselmani, Mrs. Fatima
##	22	Beesley, Mr. Lawrence
##	23	McGowan, Miss. Anna "Annie"
##	24	Sloper, Mr. William Thompson
##	26	Asplund, Mrs. Carl Oscar (Selma Augusta Emilia Johansson)
##	29	O'Dwyer, Miss. Ellen "Nellie"
##	32	Spencer, Mrs. William Augustus (Marie Eugenie)
##	33	Glynn, Miss. Mary Agatha
##	37	Mamee, Mr. Hanna
##	40	Nicola-Yarred, Miss. Jamila
##	44	Laroche, Miss. Simonne Marie Anne Andree
##	48	O'Driscoll, Miss. Bridget
##		Faunthorpe, Mrs. Lizzie (Elizabeth Anne Wilkinson)
##	56	Woolner, Mr. Hugh
##	59	West, Miss. Constance Mirium
##	62	Icard, Miss. Amelie
##		Nye, Mrs. (Elizabeth Ramell)
##		Andersson, Miss. Erna Alexandra
##		Bing, Mr. Lee
##		Dowdell, Miss. Elizabeth
##		Sheerlinck, Mr. Jan Baptist
##		McDermott, Miss. Brigdet Delia
##		Ilett, Miss. Bertha
##		Backstrom, Mrs. Karl Alfred (Maria Mathilda Gustafsson)
##		Fortune, Miss. Mabel Helen
##		Greenfield, Mr. William Bertram
##		Doling, Mrs. John T (Ada Julia Bone)
	107	Salkjelsvik, Miss. Anna Kristine
	108	Moss, Mr. Albert Johan
	110	Moran, Miss. Bertha
	124	Webber, Miss. Susan
	126	Nicola-Yarred, Master. Elias
##	129	Peter, Miss. Anna

## 137	Newsom, Miss. Helen Monypeny
## 143	Hakkarainen, Mrs. Pekka Pietari (Elin Matilda Dolck)
## 147	Andersson, Mr. August Edvard ("Wennerstrom")
## 152	Pears, Mrs. Thomas (Edith Wearne)
## 157	Gilnagh, Miss. Katherine "Katie"
## 162	Watt, Mrs. James (Elizabeth "Bessie" Inglis Milne)
## 166	Goldsmith, Master. Frank John William "Frankie"
## 167	Chibnall, Mrs. (Edith Martha Bowerman)
## 173	Johnson, Miss. Eleanor Ileen
## 184	Becker, Master. Richard F
## 188	Romaine, Mr. Charles Hallace ("Mr C Rolmane")
## 191	Pinsky, Mrs. (Rosa)
## 193	Andersen-Jensen, Miss. Carla Christine Nielsine
## 194	Navratil, Master. Michel M
## 196	Lurette, Miss. Elise
## 199	Madigan, Miss. Margaret "Maggie"
## 205	Cohen, Mr. Gurshon "Gus"
## 208	Albimona, Mr. Nassef Cassem
## 209	Carr, Miss. Helen "Ellen"
## 210	Blank, Mr. Henry
## 212	Cameron, Miss. Clear Annie
## 217	Honkanen, Miss. Eliina
## 221	Sunderland, Mr. Victor Francis
## 225	Hoyt, Mr. Frederick Maxfield
## 227	Mellors, Mr. William John
## 231	Harris, Mrs. Henry Birkhardt (Irene Wallach)
## 234	Asplund, Miss. Lillian Gertrud
## 242	Murphy, Miss. Katherine "Kate"
## 248	Hamalainen, Mrs. William (Anna)
## 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)
## 262	Asplund, Master. Edvin Rojj Felix
## 268	Persson, Mr. Ernst Ulrik
## 269	Graham, Mrs. William Thompson (Edith Junkins)
## 272	Tornquist, Mr. William Henry
## 273	Mellinger, Mrs. (Elizabeth Anne Maidment)
## 275	Healy, Miss. Hanora "Nora"
## 276	Andrews, Miss. Kornelia Theodosia
## 280	Abbott, Mrs. Stanton (Rosa Hunt)
## 284	Dorking, Mr. Edward Arthur
## 287	de Mulder, Mr. Theodore
## 289	Hosono, Mr. Masabumi
## 290	Connolly, Miss. Kate
## 291	Barber, Miss. Ellen "Nellie"
## 292	Bishop, Mrs. Dickinson H (Helen Walton)
## 299	Saalfeld, Mr. Adolphe
## 300	Baxter, Mrs. James (Helene DeLaudeniere Chaput)
## 301	Kelly, Miss. Anna Katherine "Annie Kate"
## 304	Keane, Miss. Nora A
## 306	Allison, Master. Hudson Trevor
## 307	Fleming, Miss. Margaret

шш	200	Decree of Controllers Many Minter to Control (Manie Transfer Decree to Control Many)
	310	Penasco y Castellana, Mrs. Victor de Satode (Maria Josefa Perez de Soto y Vallejo)
	311	Francatelli, Miss. Laura Mabel
	312	Hays, Miss. Margaret Bechstein
	316	Ryerson, Miss. Emily Borie Nilsson, Miss. Helmina Josefina
	317	Kantor, Mrs. Sinai (Miriam Sternin)
	319	Wick, Miss. Mary Natalie
	320	Spedden, Mrs. Frederic Oakley (Margaretta Corning Stone)
	323	Slayter, Miss. Hilda Mary
	324	Caldwell, Mrs. Albert Francis (Sylvia Mae Harbaugh)
	326	Young, Miss. Marie Grice
	329	Goldsmith, Mrs. Frank John (Emily Alice Brown)
##	330	Hippach, Miss. Jean Gertrude
##	331	McCoy, Miss. Agnes
##	335	Frauenthal, Mrs. Henry William (Clara Heinsheimer)
##	338	Burns, Miss. Elizabeth Margaret
##	341	Navratil, Master. Edmond Roger
##	342	Fortune, Miss. Alice Elizabeth
##	346	Brown, Miss. Amelia "Mildred"
##	347	Smith, Miss. Marion Elsie
##	348	Davison, Mrs. Thomas Henry (Mary E Finck)
	349	Coutts, Master. William Loch "William"
	357	Bowerman, Miss. Elsie Edith
	359	McGovern, Miss. Mary
	360	Mockler, Miss. Helen Mary "Ellie"
	367	Warren, Mrs. Frank Manley (Anna Sophia Atkinson)
	368	Moussa, Mrs. (Mantoura Boulos)
	369	Jermyn, Miss. Annie
	370	Aubart, Mme. Leontine Pauline
	371 376	Harder, Mr. George Achilles
	377	Meyer, Mrs. Edgar Joseph (Leila Saks) Landergren, Miss. Aurora Adelia
	381	Bidois, Miss. Rosalie
	382	Nakid, Miss. Maria ("Mary")
	384	Holverson, Mrs. Alexander Oskar (Mary Aline Towner)
	388	Buss, Miss. Kate
	390	Lehmann, Miss. Bertha
	391	Carter, Mr. William Ernest
	394	Newell, Miss. Marjorie
	395	Sandstrom, Mrs. Hjalmar (Agnes Charlotta Bengtsson)
##	400	Trout, Mrs. William H (Jessie L)
##	401	Niskanen, Mr. Juha
##	408	Richards, Master. William Rowe
##	413	Minahan, Miss. Daisy E
##	415	Sundman, Mr. Johan Julian
##	417	Drew, Mrs. James Vivian (Lulu Thorne Christian)
	418	Silven, Miss. Lyyli Karoliina
	427	Clarke, Mrs. Charles V (Ada Maria Winfield)
	428	Phillips, Miss. Kate Florence ("Mrs Kate Louise Phillips Marshall")
	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)
##	436	Carter, Miss. Lucile Polk

	400	
	438 441	Richards, Mrs. Sidney (Emily Hocking)
	446	Hart, Mrs. Benjamin (Esther Ada Bloomfield) Dodge, Master. Washington
	447	Mellinger, Miss. Madeleine Violet
	448	Seward, Mr. Frederic Kimber
	454	Goldenberg, Mr. Samuel L
	456	Jalsevac, Mr. Ivan
	458	Kenyon, Mrs. Frederick R (Marion)
##	459	Toomey, Miss. Ellen
##	461	Anderson, Mr. Harry
##	474	Jerwan, Mrs. Amin S (Marie Marthe Thuillard)
##	480	Hirvonen, Miss. Hildur E
##	484	Turkula, Mrs. (Hedwig)
	485	Bishop, Mr. Dickinson H
	487	Hoyt, Mrs. Frederick Maxfield (Jane Anne Forby)
	490	Coutts, Master. Eden Leslie "Neville"
	497	Eustis, Miss. Elizabeth Mussey
	505	Maioni, Miss. Roberta
	508	Bradley, Mr. George ("George Arthur Brayton")
	511	Daly, Mr. Eugene Patrick
	513 517	McGough, Mr. James Robert
	519	Lemore, Mrs. (Amelia Milley) Angle, Mrs. William A (Florence "Mary" Agnes Hughes)
	521	Perreault, Miss. Anne
	527	Ridsdale, Miss. Lucy
	531	Quick, Miss. Phyllis May
	536	Hart, Miss. Eva Miriam
##	538	LeRoy, Miss. Bertha
##	544	Beane, Mr. Edward
##	547	Beane, Mrs. Edward (Ethel Clarke)
##	548	Padro y Manent, Mr. Julian
	551	Thayer, Mr. John Borland Jr
	554	Leeni, Mr. Fahim ("Philip Zenni")
	555	Ohman, Miss. Velin
	557	Duff Gordon, Lady. (Lucille Christiana Sutherland) ("Mrs Morgan")
	570	Jonsson, Mr. Carl
	572	Appleton, Mrs. Edward Dale (Charlotte Lamson)
	574 577	Kelly, Miss. Mary
	578	Garside, Miss. Ethel Silvey, Mrs. William Baird (Alice Munger)
	581	Christy, Miss. Julie Rachel
	588	Frolicher-Stehli, Mr. Maxmillian
	592	Stephenson, Mrs. Walter Bertram (Martha Eustis)
	600	Duff Gordon, Sir. Cosmo Edmund ("Mr Morgan")
##	601	Jacobsohn, Mrs. Sidney Samuel (Amy Frances Christy)
##	605	Homer, Mr. Harry ("Mr E Haven")
	000	Daniel, Mr. Robert Williams
	608	
##		Laroche, Mrs. Joseph (Juliette Marie Louise Lafargue)
## ## ##	608 609 610	Laroche, Mrs. Joseph (Juliette Marie Louise Lafargue) Shutes, Miss. Elizabeth W
## ## ## ##	608 609 610 616	Shutes, Miss. Elizabeth W Herman, Miss. Alice
## ## ## ##	608 609 610 616 619	Shutes, Miss. Elizabeth W Herman, Miss. Alice Becker, Miss. Marion Louise
## ## ## ## ##	608 609 610 616 619 622	Shutes, Miss. Elizabeth W Herman, Miss. Alice Becker, Miss. Marion Louise Kimball, Mr. Edwin Nelson Jr
## ## ## ## ##	608 609 610 616 619	Shutes, Miss. Elizabeth W Herman, Miss. Alice Becker, Miss. Marion Louise

## 633	Stahelin-Maeglin, Dr. Max
## 636	Davis, Miss. Mary
## 644	Foo, Mr. Choong
## 645	Baclini, Miss. Eugenie
## 646	Harper, Mr. Henry Sleeper
## 650 ## 650	Stanley, Miss. Amy Zillah Elsie
## 652	Doling, Miss. Elsie
## 654	O'Leary, Miss. Hanora "Norah"
## 661 ## 665	Frauenthal, Dr. Henry William
## 665 ## 670	Lindqvist, Mr. Eino William Taylor, Mrs. Elmer Zebley (Juliet Cummins Wright)
## 670 ## 671	Brown, Mrs. Thomas William Solomon (Elizabeth Catherine Ford)
## 674	Wilhelms, Mr. Charles
## 678	Turja, Miss. Anna Sofia
## 680	Cardeza, Mr. Thomas Drake Martinez
## 682	Hassab, Mr. Hammad
## 690	Madill, Miss. Georgette Alexandra
## 691	Dick, Mr. Albert Adrian
## 692	Karun, Miss. Manca
## 693	Lam, Mr. Ali
## 698	Mullens, Miss. Katherine "Katie"
## 701	Astor, Mrs. John Jacob (Madeleine Talmadge Force)
## 702	Silverthorne, Mr. Spencer Victor
## 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")
## 713	Taylor, Mr. Elmer Zebley
## 717	Endres, Miss. Caroline Louise
## 725 ## 728	Chambers, Mr. Norman Campbell
## 728 ## 728	Mannion, Miss. Margareth
## 738 ## 741	Lesurer, Mr. Gustave J Hawksford, Mr. Walter James
## 741 ## 745	Stranden, Mr. Juho
## 751	Wells, Miss. Joan
## 752	Moor, Master. Meier
## 755	Herman, Mrs. Samuel (Jane Laver)
## 756	Hamalainen, Master. Viljo
## 760	Rothes, the Countess. of (Lucy Noel Martha Dyer-Edwards)
## 763	Barah, Mr. Hanna Assi
## 764	Carter, Mrs. William Ernest (Lucile Polk)
## 775	Hocking, Mrs. Elizabeth (Eliza Needs)
## 780	Robert, Mrs. Edward Scott (Elisabeth Walton McMillan)
## 781	Ayoub, Miss. Banoura
## 787	Sjoblom, Miss. Anna Sofia
## 789	Dean, Master. Bertram Vere
## 798	Osman, Mrs. Mara
## 802	Collyer, Mrs. Harvey (Charlotte Annie Tate)
## 804	Thomas, Master. Assad Alexander
## 805	Hedman, Mr. Oskar Arvid
## 810 ## 801	Chambers, Mrs. Norman Campbell (Bertha Griggs)
## 821 ## 820	Hays, Mrs. Charles Melville (Clara Jennings Gregg)
## 829	McCormack, Mr. Thomas Joseph

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## 830
                                                    Stone, Mrs. George Nelson (Martha Evelyn)
## 831
                                                      Yasbeck, Mrs. Antoni (Selini Alexander)
## 832
                                                               Richards, Master. George Sibley
## 836
                                                                   Compton, Miss. Sara Rebecca
## 839
                                                                                Chip, Mr. Chang
## 840
                                                                           Marechal, Mr. Pierre
## 854
                                                                     Lines, Miss. Mary Conover
## 856
                                                                    Aks, Mrs. Sam (Leah Rosen)
                                                   Wick, Mrs. George Dennick (Mary Hitchcock)
## 857
## 859
                                                        Baclini, Mrs. Solomon (Latifa Qurban)
## 863
                                         Swift, Mrs. Frederick Joel (Margaret Welles Barron)
## 866
                                                                       Bystrom, Mrs. (Karolina)
## 870
                                                               Johnson, Master. Harold Theodor
## 872
                                            Beckwith, Mrs. Richard Leonard (Sallie Monypeny)
## 875
                                                        Abelson, Mrs. Samuel (Hannah Wizosky)
## 876
                                                              Najib, Miss. Adele Kiamie "Jane"
## 880
                                               Potter, Mrs. Thomas Jr (Lily Alexenia Wilson)
##
  888
                                                                  Graham, Miss. Margaret Edith
##
   890
                                                                          Behr, Mr. Karl Howell
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                                                                             cabin
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## ## ## ## ## ##	132 133 138 139 140 141 145 146	male female male male female female female	20.00 47.00 37.00 16.00 24.00 NA 18.00 19.00	0 1 1 0 0 0 0	0 0 0 0 0 2 0	SOTON/O.Q. 3101307 A/5. 3337 113803 7534 PC 17593 2678 231945 C.A. 33112	7.0500 14.5000 53.1000 9.2167 79.2000 15.2458 11.5000 36.7500	<na> <na> C123 <na> B86 <na> <na> <na></na></na></na></na></na></na>
## ## ## ## ## ##	132 133 138 139 140 141 145 146	male female male male female female male male	20.00 47.00 37.00 16.00 24.00 NA 18.00 19.00 9.00	0 1 1 0 0 0 0 0 1 2	0 0 0 0 0 2 0 1 2	SOTON/O.Q. 3101307 A/5. 3337 113803 7534 PC 17593 2678 231945 C.A. 33112 W./C. 6608	7.0500 14.5000 53.1000 9.2167 79.2000 15.2458 11.5000 36.7500 34.3750	<na> <na> C123 <na> B86 <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na>
## ## ## ## ## ## ##	132 133 138 139 140 141 145 146 148	male female male male female female male male female male	20.00 47.00 37.00 16.00 24.00 NA 18.00 19.00 9.00 42.00	0 1 1 0 0 0 0 0 1 2	0 0 0 0 0 0 2 0 1 2	SOTON/O.Q. 3101307 A/5. 3337 113803 7534 PC 17593 2678 231945 C.A. 33112 W./C. 6608 244310	7.0500 14.5000 53.1000 9.2167 79.2000 15.2458 11.5000 36.7500 34.3750 13.0000	<na> <na> C123 <na> B86 <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na></na></na>
## ## ## ## ## ## ##	132 133 138 139 140 141 145 146 148 150 151	male female male male female female male male male male	20.00 47.00 37.00 16.00 24.00 NA 18.00 19.00 9.00 42.00 51.00	0 1 1 0 0 0 0 0 1 2 0	0 0 0 0 0 0 2 0 1 2 0	SOTON/O.Q. 3101307 A/5. 3337 113803 7534 PC 17593 2678 231945 C.A. 33112 W./C. 6608 244310 S.O.P. 1166	7.0500 14.5000 53.1000 9.2167 79.2000 15.2458 11.5000 36.7500 34.3750 13.0000 12.5250	<na> <na> C123 <na> B86 <na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na></na></na></na>
## ## ## ## ## ## ##	132 133 138 139 140 141 145 146 148 150 151 153	male female male male female female male male male male	20.00 47.00 37.00 16.00 24.00 NA 18.00 19.00 9.00 42.00 51.00 55.50	0 1 1 0 0 0 0 0 1 2 0 0	0 0 0 0 0 0 2 0 1 2 0 0	SOTON/O.Q. 3101307 A/5. 3337 113803 7534 PC 17593 2678 231945 C.A. 33112 W./C. 6608 244310 S.O.P. 1166 A.5. 11206	7.0500 14.5000 53.1000 9.2167 79.2000 15.2458 11.5000 36.7500 34.3750 13.0000 12.5250 8.0500	<na> <na> C123 <na> B86 <na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na></na></na></na>
## ## ## ## ## ## ## ##	132 133 138 139 140 141 145 146 148 150 151 153 154	male female male male female male male male male male male male	20.00 47.00 37.00 16.00 24.00 NA 18.00 19.00 9.00 42.00 51.00 55.50 40.50	0 1 1 0 0 0 0 0 1 2 0 0 0	0 0 0 0 0 2 0 1 2 0 0 0	SOTON/O.Q. 3101307 A/5. 3337 113803 7534 PC 17593 2678 231945 C.A. 33112 W./C. 6608 244310 S.O.P. 1166 A.5. 11206 A/5. 851	7.0500 14.5000 53.1000 9.2167 79.2000 15.2458 11.5000 36.7500 34.3750 13.0000 12.5250 8.0500 14.5000	<na> <na> C123 <na> B86 <na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na></na></na></na>
## ## ## ## ## ## ## ##	132 133 138 139 140 141 145 146 148 150 151 153 154 155	male female male male female male female male male male male male male	20.00 47.00 37.00 16.00 24.00 NA 18.00 19.00 9.00 42.00 51.00 55.50 40.50	0 1 1 0 0 0 0 0 1 2 0 0 0 0 0	0 0 0 0 0 2 0 1 2 0 0 0 0	SOTON/O.Q. 3101307 A/5. 3337 113803 7534 PC 17593 2678 231945 C.A. 33112 W./C. 6608 244310 S.O.P. 1166 A.5. 11206 A/5. 851 Fa 265302	7.0500 14.5000 53.1000 9.2167 79.2000 15.2458 11.5000 36.7500 34.3750 13.0000 12.5250 8.0500 14.5000 7.3125	<na> <na> C123 <na> B86 <na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na></na></na></na>
## ## ## ## ## ## ## ## ##	132 133 138 139 140 141 145 146 148 150 151 153 154 155 156	male female male male female male female male male male male male male	20.00 47.00 37.00 16.00 24.00 NA 18.00 19.00 9.00 42.00 51.00 55.50 40.50 NA 51.00	0 1 1 0 0 0 0 0 1 2 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 2 0 1 2 0 0 0 0 2 0	SOTON/O.Q. 3101307 A/5. 3337 113803 7534 PC 17593 2678 231945 C.A. 33112 W./C. 6608 244310 S.O.P. 1166 A.5. 11206 A/5. 851 Fa 265302 PC 17597	7.0500 14.5000 53.1000 9.2167 79.2000 15.2458 11.5000 36.7500 34.3750 13.0000 12.5250 8.0500 14.5000 7.3125 61.3792	<na> <na> C123 <na> B86 <na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na></na></na></na>
## ## ## ## ## ## ## ## ## ## ## ## ##	132 133 138 139 140 141 145 146 150 151 153 154 155 156 158	male female male male female male female male male male male male male male	20.00 47.00 37.00 16.00 24.00 NA 18.00 19.00 9.00 42.00 51.00 55.50 40.50 NA 51.00 30.00	0 1 1 0 0 0 0 0 1 2 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 2 0 1 2 0 0 0 0 2 0 0	SOTON/O.Q. 3101307 A/5. 3337 113803 7534 PC 17593 2678 231945 C.A. 33112 W./C. 6608 244310 S.O.P. 1166 A.5. 11206 A/5. 851 Fa 265302 PC 17597 SOTON/OQ 392090	7.0500 14.5000 53.1000 9.2167 79.2000 15.2458 11.5000 36.7500 34.3750 13.0000 12.5250 8.0500 14.5000 7.3125 61.3792 8.0500	<na> <na> C123 <na> B86 <na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na></na></na></na>
## ## ## ## ## ## ## ## ##	132 133 138 139 140 141 145 146 150 151 153 154 155 156 158 159	male female male male female male male female male male male male male male male	20.00 47.00 37.00 16.00 24.00 NA 18.00 19.00 9.00 42.00 51.00 55.50 40.50 NA 51.00 30.00	0 1 1 0 0 0 0 0 1 2 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 2 0 1 2 0 0 0 0 2 0 0	SOTON/O.Q. 3101307 A/5. 3337 113803 7534 PC 17593 2678 231945 C.A. 33112 W./C. 6608 244310 S.O.P. 1166 A.5. 11206 A/5. 851 Fa 265302 PC 17597 SOTON/OQ 392090 315037	7.0500 14.5000 53.1000 9.2167 79.2000 15.2458 11.5000 36.7500 34.3750 13.0000 12.5250 8.0500 14.5000 7.3125 61.3792 8.0500 8.6625	<na> <na> C123 <na> B86 <na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na></na></na></na>
## ## ## ## ## ## ## ## ## ##	132 133 138 139 140 141 145 146 151 153 154 155 156 158 159 160	male female male male female male female male male male male male male male	20.00 47.00 37.00 16.00 24.00 NA 18.00 19.00 9.00 42.00 51.00 55.50 40.50 NA 51.00 30.00 NA	0 1 1 0 0 0 0 0 0 1 2 0 0 0 0 0 0 0 0 0	0 0 0 0 0 2 0 1 2 0 0 0 2 0 0 0 1 0 0 0 0	SOTON/O.Q. 3101307 A/5. 3337 113803 7534 PC 17593 2678 231945 C.A. 33112 W./C. 6608 244310 S.O.P. 1166 A.5. 11206 A/5. 851 Fa 265302 PC 17597 SOTON/OQ 392090 315037 CA. 2343 371362	7.0500 14.5000 53.1000 9.2167 79.2000 15.2458 11.5000 36.7500 34.3750 13.0000 12.5250 8.0500 14.5000 7.3125 61.3792 8.0500 8.6625 69.5500 16.1000	<na> <na> C123 <na> B86 <na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na></na></na></na>
## ## ## ## ## ## ## ## ## ## ## ## ##	132 133 138 139 140 141 145 146 148 150 151 153 154 155 156 158 159 160 161	male female male male female male female male male male male male male male	20.00 47.00 37.00 16.00 24.00 NA 18.00 19.00 9.00 42.00 51.00 55.50 40.50 NA 51.00 30.00 NA NA	0 1 1 0 0 0 0 0 1 2 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 2 0 1 2 0 0 0 2 0 0 1 0 0 0 0	SOTON/O.Q. 3101307 A/5. 3337 113803 7534 PC 17593 2678 231945 C.A. 33112 W./C. 6608 244310 S.O.P. 1166 A.5. 11206 A/5. 851 Fa 265302 PC 17597 SOTON/OQ 392090 315037 CA. 2343	7.0500 14.5000 53.1000 9.2167 79.2000 15.2458 11.5000 36.7500 34.3750 13.0000 12.5250 8.0500 14.5000 7.3125 61.3792 8.0500 8.6625 69.5500 16.1000 8.6625	<na> <na> C123 <na> B86 <na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na></na></na></na>
######################################	132 133 138 139 140 141 145 146 148 150 151 153 154 155 156 158 160 161 164 165	male female male male female female male male male male male male male	20.00 47.00 37.00 16.00 24.00 NA 18.00 19.00 9.00 42.00 51.00 55.50 40.50 NA 51.00 30.00 NA NA 44.00 17.00	0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 2 0 1 2 0 0 0 0 2 0 0 1 0 0 0 0	SOTON/O.Q. 3101307 A/5. 3337 113803 7534 PC 17593 2678 231945 C.A. 33112 W./C. 6608 244310 S.O.P. 1166 A.5. 11206 A/5. 851 Fa 265302 PC 17597 SOTON/OQ 392090 315037 CA. 2343 371362 315093 3101295	7.0500 14.5000 53.1000 9.2167 79.2000 15.2458 11.5000 36.7500 34.3750 13.0000 12.5250 8.0500 14.5000 7.3125 61.3792 8.0500 8.6625 69.5500 16.1000 8.6625 39.6875	<na> <na> C123 <na> B86 <na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na></na></na></na>
######################################	132 133 138 139 140 141 145 146 148 150 151 153 154 155 156 158 160 161 164 165	male female male male female female male male male male male male male	20.00 47.00 37.00 16.00 24.00 NA 18.00 19.00 9.00 42.00 51.00 55.50 40.50 NA 51.00 30.00 NA NA 44.00 17.00	0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 2 0 1 2 0 0 0 2 0 1 0 0 0 1 0 0 0 1 0 0 1 0 0 1 0 0 1	SOTON/O.Q. 3101307 A/5. 3337 113803 7534 PC 17593 2678 231945 C.A. 33112 W./C. 6608 244310 S.O.P. 1166 A.5. 11206 A/5. 851 Fa 265302 PC 17597 SOTON/OQ 392090 315037 CA. 2343 371362 315093	7.0500 14.5000 53.1000 9.2167 79.2000 15.2458 11.5000 36.7500 34.3750 13.0000 12.5250 8.0500 14.5000 7.3125 61.3792 8.0500 8.6625 69.5500 16.1000 8.6625 39.6875 27.9000	<na> <na> C123 <na> B86 <na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na></na></na></na>
######################################	132 133 138 139 140 141 145 146 148 150 151 153 154 155 156 158 159 160 161 164 165 168	male female male male female female male male male male male male male	20.00 47.00 37.00 16.00 24.00 NA 18.00 19.00 9.00 42.00 51.00 55.50 40.50 NA 51.00 30.00 NA NA 44.00 17.00 45.00	0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 2 0 1 2 0 0 0 2 0 1 0 0 0 1 0 0 1 0 0 1 0 0 1 0 1	SOTON/O.Q. 3101307 A/5. 3337 113803 7534 PC 17593 2678 231945 C.A. 33112 W./C. 6608 244310 S.O.P. 1166 A.5. 11206 A/5. 851 Fa 265302 PC 17597 SOTON/OQ 392090 315037 CA. 2343 371362 315093 3101295 347088	7.0500 14.5000 53.1000 9.2167 79.2000 15.2458 11.5000 36.7500 34.3750 13.0000 12.5250 8.0500 14.5000 7.3125 61.3792 8.0500 8.6625 69.5500 16.1000 8.6625 39.6875	<na> <na> C123 <na> B86 <na> <na> <na> <na> <na> <na> <na> <na></na></na></na></na></na></na></na></na></na></na></na>

##	172	male	4.00	4	1	382652	29.1250	<na></na>
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##	189	male	40.00	1	1	364849	15.5000	<na></na>
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##	201	male	28.00	0	0	345770	9.5000	<na></na>
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##	207	male	32.00	1	0	3101278	15.8500	<na></na>
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##	229	male	18.00	0	0	236171	13.0000	<na></na>
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##	233	male	59.00	0	0	237442	13.5000	<na></na>
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##	239	male	19.00	0	0	28665	10.5000	<na></na>
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##	244	male	22.00	0	0	STON/O 2. 3101275	7.1250	<na></na>
##	245	male	30.00	0	0	2694	7.2250	<na></na>
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##	247	${\tt female}$	25.00	0	0	347071	7.7750	<na></na>
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	261	male	NA	0	0	384461	7.7500	<na></na>
	263		52.00	1	1	110413	79.6500	E67
##	264		40.00	0	0	112059	0.0000	B94
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	271	male	NA	0	0	113798	31.0000	<na></na>
	274		37.00	0	1	PC 17596	29.7000	C118
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шш	000		22 22	0	0	340206	7 0050	< NT A >
	288		22.00	0	0	349206	7.8958	<na></na>
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##	333	male	38.00	0	1	PC 17582	153.4625	C91
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##	344	male	25.00	0	0	244361	13.0000	<na></na>
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	373		19.00	0	0	323951	8.0500	<na></na>
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		female		1	0	4137	9.8250	<na></na>
##	404	male	28.00	1	0	STON/02. 3101279	15.8500	<na></na>

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	405	female	34.00	0	0	315096	8.6625	<na></na>
		female		1 3	0	28664 4133	21.0000 25.4667	<na></na>
	410		NA MA		1 0		6.8583	<na></na>
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##	439		64.00	1	4		263.0000	C23 C25 C27
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	520		32.00	0	0	349242	7.8958	<na></na>
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	736		28.50	0	0	54636	16.1000	<na></na>
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	551	marc.		J	3	010001	0.0020	'ma'

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	59	female		1	2	C.A. 34651	27.7500	<na></na>
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	83	female	NA	0	0	330932	7.7875	<na></na>
			1111	9	•	000002		-1111

##	O.E.	£ 7 -	17 00	^	^	CD /C 1400E	10 5000	~NT A >
	86	female female		0	0	SO/C 14885 3101278	10.5000 15.8500	<na></na>
	89	female		3	2		263.0000	C23 C25 C27
##	98		23.00	0	1	PC 17759	63.3583	D10 D12
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##		female		1	0	STON/02. 3101279	15.8500	<na></na>
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		female			0	19928	90.0000	C78
	415		44.00		0	STON/O 2. 3101269 28220	7.9250	<na></na>
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., π	01-1	J

##	815	S
##	816	S
##	820	S
##	823	S
##	825	S
##	826	Q
##	827	S
##	833	C
##	834	S
##	835	S
##	837	S
##	842	S
##	844	С
##	846	S
##	847	S
##	848	С
##	849	S
##	851	S
##	852	S
##	853	С
##	855	S
##	860	С
##	861	S
##	862	S
##	864	S
##	865	S
##	868	S
##	869	S
##	871	S
##	873	S
##	878	S
##	879	S
##	883	S
##	884	S S
##	885	S
##	887 889	S
##	891	
##	2	Q C
##	3	S
##	9	S
##	10	С
##	18	S
##	20	C
##	22	S
##	23	Q
##	24	S
##	26	S
##	29	Q
##	32	C
##	33	Q
##	37	C
##	40	C
##	44	С

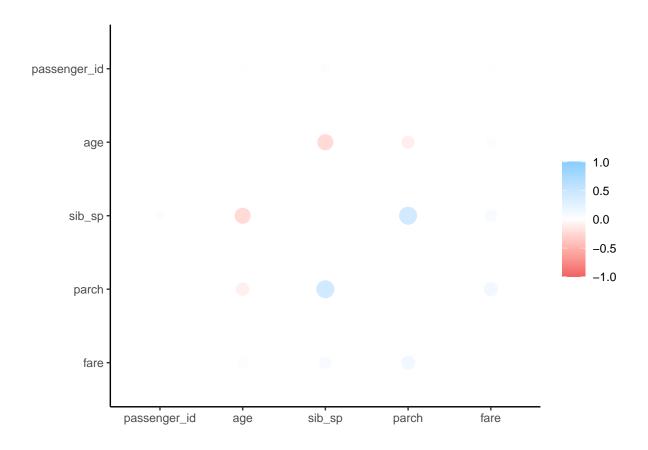
##	48	Q
##	54	S
##	56 59	S S
##	62	<na></na>
##	67	S
##	69	S
##	75	S
##	80	S
##	82	S
##	83	Q
##	85	S
##	86	S
##	89	S
##	98	С
##	99	S
##	107	S
##	108	S
##	110	Q
##	124	S
##	126	C
##	129	C
##	137	S
##	143	S
##	147	S
##	152	S
##	157	Q
##	162	S
##	166	S
##	167	S
##	173	S
##	184	S
##	188	S S
##	191	S S
## ##	193 194	S S
##	194	C
##	199	Q
##	205	S
##	208	C
##	209	Q
##	210	C
##	212	S
##	217	S
##	221	S
##	225	S
##	227	S
##	231	S
##	234	S
##	242	Q
##	248	S
##	256	C
##	257	C
##	258	S

##	050	С
	259	
##	260	S
##	262	S
##	268	S
##	269	S
##	272	S
##	273	S
##	275	Q
##	276	S
##	280	S
##	284 287	S S
##		
##	289	S
##	290	Q
##	291	S
##	292	C
##	299	S
##	300	C
##	301	Q
##	304	Q
##	306	S
##	307	C
##	308	C
##	310	C
##	311	C
##	312	C
##	316	S
##	317	S S
##	319	C
##	320 323	Q
##	324	ų S
##	326	C
##	329	S
##	330	C
##	331	Q
##	335	s S
##	338	C
##	341	S
##	342	S
##	346	S
##	347	S
##	348	S
##	349	S
##	357	S
##	359	Q
##	360	Q
##	367	C
##	368	С
##	369	Q
##	370	C
##	371	С
##	376	С
##	377	S

##	381	С
##		
##	382	C
##	384	S
##	388	S
##	390	C
##	391	S
##	394	C
##	395	S
##	400	S
##	401	S
##	408	S
##	413	Q
##	415	S
##	417	S
##	418	S
##	427	S
##	428	S
##	430	S
##	431	S
##	432	S
##	433	S
##	436	S
##	438	S
##	441	S
##	446	S
##	447	S
##	448	S
##	454	С
##	456	C
##	458	S
##	459	\$ \$ \$
##	461	S
##	474	C
##	480	S
##	484	S
##	485	С
##	487	S
##	490	S
##	497	С
##	505	S
##	508	S
##	511	Q
##	513	S
##	517	S
##	519	S
##	521	S
##	527	S
##	531	S
##	536	S
##	538	C
##	544	S
##	547	S
##	548	C
##	551	С

##	554	C
##	555	S
##	557	C
##	570	S
##	572	S
##	574	Q
##	577	S
##	578	S
##	581	S
##	588	C
##	592	C
##	600	C
##	601	S
##	605	C
##	608	S
##	609	C
##	610 616	S S
## ##	619	S
##	622	S
##	623	C
##	628	S
##	633	C
##	636	S
##	644	S
##	645	C
##	646	C
##	650	S
##	652	S
##	654	Q
##	661	S
##	665	S
##	670	S
##	671	S
##	674	S
##	678	S
##	680	C
##	682	C
##	690	S
##	691	S
## ##	692 693	C S
##	698	ت Q
##	701	Q C
##	702	S
##	707	S
##	708	S
##	709	S
##	710	C
##	711	C
##	713	S
##	717	C
##	725	S
##	728	Q

```
## 738
               С
## 741
               S
               S
## 745
## 751
               S
               S
## 752
               S
## 755
               S
## 756
               S
## 760
               С
## 763
               S
## 764
               S
## 775
               S
## 780
               С
## 781
               S
## 787
## 789
               \mathsf{S}
               S
## 798
## 802
               S
               С
## 804
## 805
               S
               S
## 810
               S
## 821
## 829
               Q
## 830
            <NA>
## 831
               C
## 832
               S
               С
## 836
               S
## 839
## 840
               С
               S
## 854
## 856
               S
               S
## 857
## 859
               С
## 863
               S
## 866
               S
               S
## 870
## 872
               S
               С
## 875
## 876
               С
## 880
               С
               S
## 888
## 890
               С
cor_data <- data %>%
  select(-c(survived, pclass, name, sex, ticket, cabin, embarked)) %>%
  correlate()
rplot(cor_data)
```



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.

```
names(dataTrain)
    [1] "passenger_id" "survived"
                                         "pclass"
                                                          "name"
                                                                           "sex"
    [6] "age"
                         "sib_sp"
                                          "parch"
                                                          "ticket"
                                                                           "fare"
## [11] "cabin"
                         "embarked"
titanicRecipe <- recipe(survived ~ pclass +</pre>
                             sex +
                             age +
                             sib_sp +
                             parch +
```

```
fare, data = dataTrain) %>%
step_impute_linear(age) %>%
step_dummy(all_nominal_predictors()) %>%
step_interact(terms = ~ sex:fare) %>%
step_interact(terms = ~ age:fare)
```

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.

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

log_wkflow <- workflow() %>%
  add_model(log_reg) %>%
  add_recipe(titanicRecipe)

log_fit <- fit(log_wkflow, dataTrain)</pre>
```

Question 6

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

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

lda_wkflow <- workflow() %>%
  add_model(lda_mod) %>%
  add_recipe(titanicRecipe)

lda_fit <- fit(lda_wkflow, dataTrain)</pre>
```

Question 7

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

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

qda_wkflow <- workflow() %>%
  add_model(qda_mod) %>%
  add_recipe(titanicRecipe)
```

```
qda_fit <- fit(qda_wkflow, dataTrain)</pre>
```

##

[,1]

Yes 0.4505495 0.7707483 ## No 0.3234624 0.7852352

[,2]

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

```
nb_mod <- naive_Bayes() %>%
 set_mode("classification") %>%
 set_engine("klaR") %>%
 set_args(usekernel = FALSE)
nb_wkflow <- workflow() %>%
 add_model(nb_mod) %>%
 add_recipe(titanicRecipe)
nb_fit <- fit(nb_wkflow, dataTrain)</pre>
nb_fit
## Preprocessor: Recipe
## Model: naive_Bayes()
## 4 Recipe Steps
##
## * step_impute_linear()
## * step_dummy()
## * step_interact()
## * step_interact()
##
## -- Model ------
## $apriori
## grouping
##
      Yes
             No
## 0.383427 0.616573
##
## $tables
## $tables$age
##
        [,1]
               [,2]
## Yes 28.07076 13.41796
## No 29.17020 13.30665
##
## $tables$sib_sp
         [,1]
                 [,2]
## Yes 0.4798535 0.7177866
## No 0.5717540 1.3340378
##
## $tables$parch
```

```
##
## $tables$fare
##
           [,1]
                     [,2]
## Yes 49.94506 70.92922
##
  No 22.57262 33.23062
##
  $tables$pclass_X2
##
##
            [,1]
                       [,2]
## Yes 0.2490842 0.4332770
  No 0.1822323 0.3864763
##
##
   $tables$pclass_X3
##
            [,1]
                       [,2]
## Yes 0.3589744 0.4805807
## No 0.6810934 0.4665845
##
## $tables$sex_male
##
            [,1]
                       [,2]
## Yes 0.3260073 0.4696109
       0.8451025 0.3622197
##
## $tables$age_x_fare
##
                     [,2]
           [,1]
## Yes 1598.007 2602.336
        682.256 1321.477
##
##
## $levels
  [1] "Yes" "No"
##
##
##
## ...
## and 727 more lines.
```

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.

Used augment() instead of bind_cols()

Which model achieved the highest accuracy on the training data?

The logistic regression achieved the highest accuracy on the training data, with an accuracy of 80.6%. It was closely followed by the quadratic discriminant analysis model which had an accuracy of 80.4%.

```
predict(log_fit, new_data = dataTrain, type = "prob")

## # A tibble: 712 x 2

## .pred_Yes .pred_No

## <dbl> <dbl>
```

```
0.0901
                   0.910
##
   1
##
   2
        0.0649
                   0.935
        0.0956
##
   3
                   0.904
##
   4
        0.315
                   0.685
##
   5
         0.143
                   0.857
##
   6
        0.780
                   0.220
##
   7
        0.0699
                   0.930
         0.469
                   0.531
##
  8
## 9
         0.203
                   0.797
## 10
         0.564
                   0.436
## # ... with 702 more rows
predict(lda_fit, new_data = dataTrain, type = "prob")
## # A tibble: 712 x 2
      .pred_Yes .pred_No
##
##
          <dbl>
                   <dbl>
##
         0.0611
                   0.939
   1
##
   2
        0.0434
                   0.957
##
        0.0635
                   0.936
   3
##
   4
        0.257
                   0.743
                  0.905
##
   5
        0.0948
##
   6
        0.817
                   0.183
  7
##
        0.0513
                   0.949
##
   8
        0.549
                   0.451
##
  9
         0.151
                   0.849
         0.644
                   0.356
## 10
## # ... with 702 more rows
predict(qda_fit, new_data = dataTrain, type = "prob")
## # A tibble: 712 x 2
##
       .pred_Yes .pred_No
##
           <dbl>
                    <dbl>
  1 0.0264
                    0.974
## 2 0.0175
                    0.982
##
   3 0.0283
                    0.972
## 4 0.215
                    0.785
## 5 0.0461
                    0.954
## 6 0.598
                    0.402
## 7 0.00000249
                    1.00
## 8 0.542
                    0.458
## 9 0.0351
                    0.965
## 10 0.00375
                    0.996
## # ... with 702 more rows
predict(nb_fit, new_data = dataTrain, type = "prob")
## # A tibble: 712 x 2
##
       .pred_Yes .pred_No
           <dbl>
                    <dbl>
## 1 0.0233
                    0.977
```

```
## 2 0.0230
                   0.977
## 3 0.0240
                   0.976
## 4 0.339
                   0.661
## 5 0.0254
                   0.975
## 6 0.455
                   0.545
## 7 0.00000729
                   1.00
## 8 0.403
                   0.597
## 9 0.194
                   0.806
## 10 0.0132
                   0.987
## # ... with 702 more rows
# assess accuracy of logistic regression model
augment(log_fit, new_data = dataTrain) %>%
 conf_mat(truth = survived, estimate = .pred_class)
##
            Truth
## Prediction Yes No
##
         Yes 196 61
         No 77 378
##
log_acc <- augment(log_fit, new_data = dataTrain) %>%
 accuracy(truth = survived, estimate = .pred_class)
log_acc
## # A tibble: 1 x 3
   .metric .estimator .estimate
                            <dbl>
   <chr>
             <chr>
## 1 accuracy binary
                            0.806
# assess accuracy of lda model
augment(lda_fit, new_data = dataTrain) %>%
conf_mat(truth = survived, estimate = .pred_class)
##
            Truth
## Prediction Yes No
         Yes 190 67
##
##
         No 83 372
lda_acc <- augment(lda_fit, new_data = dataTrain) %>%
  accuracy(truth = survived, estimate = .pred_class)
lda_acc
## # A tibble: 1 x 3
##
     .metric .estimator .estimate
    <chr>
             <chr>
                            <dbl>
                            0.789
## 1 accuracy binary
```

```
# assess accuracy of qda model
augment(qda_fit, new_data = dataTrain) %>%
  conf_mat(truth = survived, estimate = .pred_class)
##
            Truth
## Prediction Yes No
         Yes 197 63
##
##
         No
              76 376
qda_acc <- augment(qda_fit, new_data = dataTrain) %>%
  accuracy(truth = survived, estimate = .pred_class)
qda_acc
## # A tibble: 1 x 3
     .metric .estimator .estimate
     <chr>
             <chr>
                            <dbl>
                            0.805
## 1 accuracy binary
# assess accuracy of naive bayes model
augment(nb_fit, new_data = dataTrain) %>%
  conf_mat(truth = survived, estimate = .pred_class)
##
            Truth
## Prediction Yes No
##
         Yes 144 37
##
         No 129 402
nb_acc <- augment(nb_fit, new_data = dataTrain) %>%
  accuracy(truth = survived, estimate = .pred_class)
nb_acc
## # A tibble: 1 x 3
     .metric .estimator .estimate
##
     <chr> <chr>
                          <dbl>
## 1 accuracy binary
                            0.767
```

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

The model predicts the survival of persons on the titanic in the testing dataset with an accuracy of 84.9%.

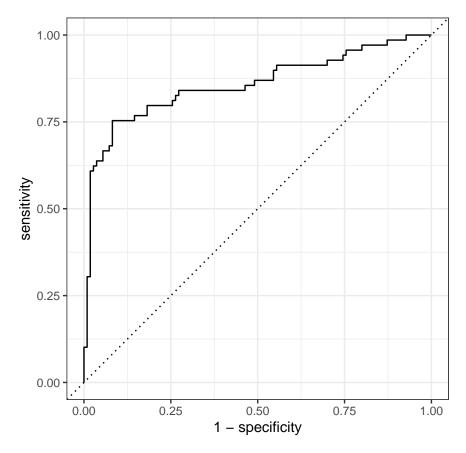
```
multiMetric <- metric_set(accuracy, sensitivity, specificity)
augment(log_fit, new_data = dataTest) %>%
  multiMetric(truth = survived, estimate = .pred_class)
```

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

```
augment(log_fit, new_data = dataTest) %>%
conf_mat(truth = survived, estimate = .pred_class)
```

```
## Truth
## Prediction Yes No
## Yes 51 9
## No 18 101
```

```
augment(log_fit, new_data = dataTest) %>%
  roc_curve(survived, .pred_Yes) %>%
  autoplot
```



```
augment(log_fit, new_data = dataTest) %>%
  roc_auc(survived, .pred_Yes)
```

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

*The model performed pretty well. Its training accuracy was 80.6%, and its testing accuracy was 84.9%. This is counterintuitive, because I would believe that the model would be more likely to better describe the training data. The difference may be due to random chance, or perhaps passengers in the test data set were more clear-cut as likely to be survivors than those in the training set.

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 = 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 $-\infty$?