AmanChauhan22BCE0476.R

Batch1

2024-09-26

```
#install.packages("psych")
#install.packages("moments")
#install.packages("ggplot2")
#install.packages("dplyr")
#install.packages("scatterplot3d")
library(psych)
library(ggplot2)
## Warning: package 'ggplot2' was built under R version 4.2.3
##
## Attaching package: 'ggplot2'
## The following objects are masked from 'package:psych':
##
##
       %+%, alpha
library(moments)
library(dplyr)
## Warning: package 'dplyr' was built under R version 4.2.3
## Attaching package: 'dplyr'
   The following objects are masked from 'package:stats':
##
##
       filter, lag
   The following objects are masked from 'package:base':
##
##
##
       intersect, setdiff, setequal, union
library(scatterplot3d)
## Warning: package 'scatterplot3d' was built under R version 4.2.3
```

```
install.packages("scatterplot3d")
```

Warning: package 'scatterplot3d' is in use and will not be installed

```
#2D Analysis
#1. Load the in-build titanic dataset from R.
#data("Titanic")
#print(Titanic)
titanic_df<-read.csv("C:/Users/batch1/Documents/titanic.csv")
titanic_df</pre>
```

##	PassengerId	Survived	Pclass
## 1	1	0	3
## 2	2	1	1
## 3	3	1	3
## 4	4	1	1
## 5	5	0	3
## 6	6	0	3
## 7	7	0	1
## 8	8	0	3
## 9	9	1	3
## 10	10	1	2
## 11	11	1	3
## 12	12	1	1
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## 15	15	0	3
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## 39	39	0	3
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## 748	748	1	2
## 749	749	0	1
## 750	750	0	3
## 751	751	1	2
## 752	752	1	3
## 753	753	0	3
## 754	754	0	3
## 755	755	1	2
## 756	756	1	2
## 757	757	0	3
## 758	758	0	2
## 759	759	0	3
## 760	760	1	1
## 761	761	0	3
## 761	761 762	0	3
## 762	762 763	1	3
## 764	763 764	1	1
, 0-7	, 54	-	_

## 765	765	0	3
## 766	766	1	1
## 767	767	0	1
## 768	768	0	3
## 769	769	0	3
## 770	770	0	3
## 771	771	0	3
## 772	772	0	3
## 773	773	0	2
## 774	774	0	3
## 775	775	1	2
## 776	776	0	3
## 777	777	0	3
## 778	778	1	3
## 779	779	0	3
## 780	780	1	1
## 781	781	1	3
## 782	782	1	1
## 783	783	0	1
## 784	784	0	3
## 785	785	0	3
## 786	786	0	3
## 787	787	1	3
## 788	788	0	3
## 789	789	1	3
## 790	790	0	1
## 791	791	0	3
## 792	792	0	2
## 793	793	0	3
## 794	794	0	1
## 795	795	0	3
## 796	796	0	2
## 797	797	1	1
## 798	798	1	3
## 799	799	0	3
## 800	800	0	3
## 801	801	0	2
## 802	802	1	2
## 803	803	1	1
## 804	804	1	3
## 805	805	1	3
## 806	806	0	3
## 807	807	0	1
## 808	808	0	3
## 809 ## 810	809 810	0 1	2
	810 911		1 3
## 811 ## 812	811	0	
## 812 ## 813	812	0	3
## 813 ## 814	813	0	2
## 814 ## 815	814	0	3
## 815	815	0	3

## 816	816	0	1
## 817	817	0	3
## 818	818	0	2
## 819	819	0	3
## 820	820	0	3
## 821	821	1	1
## 822	822	1	3
## 823	823	0	1
## 824	824	1	3
## 825	825	0	3
## 826	826	0	3
## 827	827	0	3
## 828	828	1	2
## 829	829	1	3
## 830	830	1	1
## 831	831	1	3
## 832	832	1	2
## 833	833	0	3
## 834	834	0	3
## 835	835	0	3
## 836	836	1	1
## 837	837	0	3
## 838	838	0	3
## 839	839	1	3
## 840	840	1	1
## 841	841	0	3
## 842	842	0	2
## 843	843	1	1
## 844	844	0	3
## 845	845	0	3
## 846	846	0	3
## 847	847	0	3
## 848	848	0	3
## 849	849	0	2
## 850	850	1	1
## 851	851	0	3
## 852	852	0	3
## 853	853	0	3
## 854	854	1	1
## 855	855	0	2
## 856	856	1	3
## 857	857	1	1
## 858	858	1	1
## 859	859	1	3
## 860	860	0	3
## 861	861	0	3
## 862	862	0	2
## 863	863	1	1
## 864	864	0	3
## 865	865	0	2
## 866	866	1	2
300	-	_	_

## 867	867	1	2
## 868	868	0	1
## 869	869	0	3
## 870	870	1	3
## 871	871	0	3
## 872	872	1	1
## 873	873	0	1
## 874	874	0	3
## 875	875	1	2
## 876	876	1	3
## 877	877	0	3
## 878	878	0	3
## 879	879	0	3
## 880	880	1	1
## 881	881	1	2
## 882	882	0	3
## 883	883	0	3
## 884	884	0	2
## 885	885	0	3
## 886	886	0	3
## 887	887	0	2
## 888			
	888	1	1
## 889	889	0	3
## 890	890	1	1
## 891	891	0	3 Name
##			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
			Pooslov Mn Launonso
## 22			Beesley, Mr. Lawrence
## 22 ## 23			McGowan, Miss. Anna "Annie"
## 23			McGowan, Miss. Anna "Annie"

## 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
## 32	Spencer, Mrs. William Augustus (Marie Eugenie)
## 33	Glynn, Miss. Mary Agatha
## 34	Wheadon, Mr. Edward H
## 35	Meyer, Mr. Edgar Joseph
## 36	Holverson, Mr. Alexander Oskar
## 37	Mamee, Mr. Hanna
## 38	Cann, Mr. Ernest Charles
## 39	Vander Planke, Miss. Augusta Maria
## 40	Nicola-Yarred, Miss. Jamila
## 41	Ahlin, Mrs. Johan (Johanna Persdotter Larsson)
## 42	Turpin, Mrs. William John Robert (Dorothy Ann Wonnacott)
## 43	Kraeff, Mr. Theodor
## 44	Laroche, Miss. Simonne Marie Anne Andree
## 45	Devaney, Miss. Margaret Delia
## 46	Rogers, Mr. William John
## 47	Lennon, Mr. Denis
## 48	O'Driscoll, Miss. Bridget
## 49	Samaan, Mr. Youssef
## 50	Arnold-Franchi, Mrs. Josef (Josefine Franchi)
## 51	Panula, Master. Juha Niilo
## 52	Nosworthy, Mr. Richard Cater
## 53	Harper, Mrs. Henry Sleeper (Myna Haxtun)
## 54	Faunthorpe, Mrs. Lizzie (Elizabeth Anne Wilkinson)
## 55 ## 56	Ostby, Mr. Engelhart Cornelius 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
## 62 ## 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)
## 134 ## 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

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## 179	Hale, Mr. Reginald
## 180	Leonard, Mr. Lionel
## 181	Sage, Miss. Constance Gladys
## 182	Pernot, Mr. Rene
## 183	Asplund, Master. Clarence Gustaf Hugo
## 184	Becker, Master. Richard F
## 185	Kink-Heilmann, Miss. Luise Gretchen
## 186	Rood, Mr. Hugh Roscoe
## 187	O'Brien, Mrs. Thomas (Johanna "Hannah" Godfrey)
## 188	Romaine, Mr. Charles Hallace ("Mr C Rolmane")
## 189	Bourke, Mr. John
## 190	Turcin, Mr. Stjepan
## 191	Pinsky, Mrs. (Rosa)
## 192	Carbines, Mr. William
## 193	Andersen-Jensen, Miss. Carla Christine Nielsine
## 194	Navratil, Master. Michel M
## 195	Brown, Mrs. James Joseph (Margaret Tobin)
## 196	Lurette, Miss. Elise
## 197	Mernagh, Mr. Robert
## 198	Olsen, Mr. Karl Siegwart Andreas
## 199	Madigan, Miss. Margaret "Maggie"
## 200	Yrois, Miss. Henriette ("Mrs Harbeck")
## 201	Vande Walle, Mr. Nestor Cyriel
## 202	Sage, Mr. Frederick
## 203	Johanson, Mr. Jakob Alfred
## 204	Youseff, Mr. Gerious
## 205	Cohen, Mr. Gurshon "Gus"
## 206	Strom, Miss. Telma Matilda
## 207	Backstrom, Mr. Karl Alfred
## 208	Albimona, Mr. Nassef Cassem
## 209	Carr, Miss. Helen "Ellen"
## 210	Blank, Mr. Henry
## 211	Ali, Mr. Ahmed
## 212	Cameron, Miss. Clear Annie
## 213	Perkin, Mr. John Henry
## 214	Givard, Mr. Hans Kristensen
## 215	Kiernan, Mr. Philip
## 216	Newell, Miss. Madeleine
## 217	Honkanen, Miss. Eliina
## 218	Jacobsohn, Mr. Sidney Samuel
## 219	Bazzani, Miss. Albina
## 220	Harris, Mr. Walter
## 221	Sunderland, Mr. Victor Francis
## 222	Bracken, Mr. James H
## 223	Green, Mr. George Henry
## 224	Nenkoff, Mr. Christo
## 225	Hoyt, Mr. Frederick Maxfield
## 226	Berglund, Mr. Karl Ivar Sven
## 227	Mellors, Mr. William John
## 228	Lovell, Mr. John Hall ("Henry")
## 229	Fahlstrom, Mr. Arne Jonas

## 220	Lafahna Miss Mathilda
## 230 ## 231	Lefebre, Miss. Mathilde
	Harris, Mrs. Henry Birkhardt (Irene Wallach)
## 232 ## 233	Larsson, Mr. Bengt Edvin
## 233 ## 234	Sjostedt, Mr. Ernst Adolf
## 234 ## 235	Asplund, Miss. Lillian Gertrud
	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
## 273	Mellinger, Mrs. (Elizabeth Anne Maidment)
## 274	Natsch, Mr. Charles H
## 275	Healy, Miss. Hanora "Nora"
## 276	Andrews, Miss. Kornelia Theodosia
## 277	Lindblom, Miss. Augusta Charlotta
## 278	Parkes, Mr. Francis "Frank"
## 279	Rice, Master. Eric
## 280	Abbott, Mrs. Stanton (Rosa Hunt)

## 281	Duane, Mr. Frank
## 282	Olsson, Mr. Nils Johan Goransson
## 283	de Pelsmaeker, Mr. Alfons
## 284	Dorking, Mr. Edward Arthur
## 285	Smith, Mr. Richard William
## 286	Stankovic, Mr. Ivan
## 287	de Mulder, Mr. Theodore
## 288	Naidenoff, Mr. Penko
## 289	Hosono, Mr. Masabumi
## 290	Connolly, Miss. Kate
## 291	Barber, Miss. Ellen "Nellie"
## 292	Bishop, Mrs. Dickinson H (Helen Walton)
## 293	Levy, Mr. Rene Jacques
## 294	Haas, Miss. Aloisia
## 295	Mineff, Mr. Ivan
## 296	Lewy, Mr. Ervin G
## 297	Hanna, Mr. Mansour
## 298	Allison, Miss. Helen Loraine
## 299	Saalfeld, Mr. Adolphe
## 300	Baxter, Mrs. James (Helene DeLaudeniere Chaput)
## 301	Kelly, Miss. Anna Katherine "Annie Kate"
## 302	McCoy, Mr. Bernard
## 303	Johnson, Mr. William Cahoone Jr
## 304	Keane, Miss. Nora A
## 305	Williams, Mr. Howard Hugh "Harry"
## 306	Allison, Master. Hudson Trevor
## 307	Fleming, Miss. Margaret
## 308 Penasco y Castellana, Mr	s. Victor de Satode (Maria Josefa Perez de Soto y Vallejo)
## 309	Abelson, Mr. Samuel
## 310	Francatelli, Miss. Laura Mabel
## 311	Hays, Miss. Margaret Bechstein
## 312	Ryerson, Miss. Emily Borie
## 313	Lahtinen, Mrs. William (Anna Sylfven)
## 314	Hendekovic, Mr. Ignjac
## 315	Hart, Mr. Benjamin
## 316	Nilsson, Miss. Helmina Josefina
## 317	Kantor, Mrs. Sinai (Miriam Sternin)
## 318	Moraweck, Dr. Ernest
## 319	Wick, Miss. Mary Natalie
## 320	Spedden, Mrs. Frederic Oakley (Margaretta Corning Stone)
## 321	Dennis, Mr. Samuel
## 322	Danoff, Mr. Yoto
## 323	Slayter, Miss. Hilda Mary
## 324	Caldwell, Mrs. Albert Francis (Sylvia Mae Harbaugh)
## 325	Sage, Mr. George John Jr
## 326	Young, Miss. Marie Grice
## 327	Nysveen, Mr. Johan Hansen
## 328	Ball, Mrs. (Ada E Hall)
## 329	Goldsmith, Mrs. Frank John (Emily Alice Brown)
## 330	Hippach, Miss. Jean Gertrude
## 331	McCoy, Miss. Agnes
	,,

## 222	Dautura Ma Austra
## 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")

## 202	Tikkanan Mn Juha
## 383 ## 384	Tikkanen, Mr. Juho
	Holverson, Mrs. Alexander Oskar (Mary Aline Towner)
## 385	Plotcharsky, Mr. Vasil
## 386 ## 387	Davies, Mr. Charles Henry
## 388	Goodwin, Master. Sidney Leonard
## 389	Buss, Miss. Kate
	Sadlier, Mr. Matthew
## 390	Lehmann, Miss. Bertha
## 391	Carter, Mr. William Ernest
## 392	Jansson, Mr. Carl Olof
## 393	Gustafsson, Mr. Johan Birger
## 394	Newell, Miss. Marjorie
## 395	Sandstrom, Mrs. Hjalmar (Agnes Charlotta Bengtsson)
## 396	Johansson, Mr. Erik
## 397	Olsson, Miss. Elina
## 398	McKane, Mr. Peter David
## 399	Pain, Dr. Alfred
## 400	Trout, Mrs. William H (Jessie L)
## 401	Niskanen, Mr. Juha
## 402	Adams, Mr. John
## 403	Jussila, Miss. Mari Aina
## 404	Hakkarainen, Mr. Pekka Pietari
## 405	Oreskovic, Miss. Marija
## 406	Gale, Mr. Shadrach
## 407	Widegren, Mr. Carl/Charles Peter
## 408	Richards, Master. William Rowe
## 409	Birkeland, Mr. Hans Martin Monsen
## 410	Lefebre, Miss. Ida
## 411	Sdycoff, Mr. Todor
## 412	Hart, Mr. Henry
## 413	Minahan, Miss. Daisy E
## 414	Cunningham, Mr. Alfred Fleming
## 415	Sundman, Mr. Johan Julian
## 416	Meek, Mrs. Thomas (Annie Louise Rowley)
## 417	Drew, Mrs. James Vivian (Lulu Thorne Christian)
## 418	Silven, Miss. Lyyli Karoliina
## 419	Matthews, Mr. William John
## 420	Van Impe, Miss. Catharina
## 421	Gheorgheff, Mr. Stanio
## 422	Charters, Mr. David
## 423	Zimmerman, Mr. Leo
## 424	Danbom, Mrs. Ernst Gilbert (Anna Sigrid Maria Brogren)
## 425	Rosblom, Mr. Viktor Richard
## 426	Wiseman, Mr. Phillippe
## 427	Clarke, Mrs. Charles V (Ada Maria Winfield)
## 428	Phillips, Miss. Kate Florence ("Mrs Kate Louise Phillips Marshall")
## 429	Flynn, Mr. James
## 430	Pickard, Mr. Berk (Berk Trembisky)
## 431	Bjornstrom-Steffansson, Mr. Mauritz Hakan
## 432	Thorneycroft, Mrs. Percival (Florence Kate White)
## 433	Louch, Mrs. Charles Alexander (Alice Adelaide Slow)

1	
## 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 ## 477	Clifford, Mr. George Quincy
## 477 ## 478	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)

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## 485	Bishop, Mr. Dickinson H
## 486	Lefebre, Miss. Jeannie
## 487	Hoyt, Mrs. Frederick Maxfield (Jane Anne Forby)
## 488	Kent, Mr. Edward Austin
## 489	Somerton, Mr. Francis William
## 490	Coutts, Master. Eden Leslie "Neville"
## 491	Hagland, Mr. Konrad Mathias Reiersen
## 492	Windelov, Mr. Einar
## 493	Molson, Mr. Harry Markland
## 494	Artagaveytia, Mr. Ramon
## 495	Stanley, Mr. Edward Roland
## 496	Yousseff, Mr. Gerious
## 497	Eustis, Miss. Elizabeth Mussey
## 498	Shellard, Mr. Frederick William
## 499	Allison, Mrs. Hudson J C (Bessie Waldo Daniels)
## 500	Svensson, Mr. Olof
## 501	Calic, Mr. Petar
## 502	Canavan, Miss. Mary
## 503	O'Sullivan, Miss. Bridget Mary
## 504	Laitinen, Miss. Kristina Sofia
## 505	Maioni, Miss. Roberta
## 506	Penasco y Castellana, Mr. Victor de Satode
## 507	Quick, Mrs. Frederick Charles (Jane Richards)
## 508	Bradley, Mr. George ("George Arthur Brayton")
## 509	Olsen, Mr. Henry Margido
## 510	Lang, Mr. Fang
## 511	Daly, Mr. Eugene Patrick
## 512	Webber, Mr. James
## 513	McGough, Mr. James Robert
## 514	Rothschild, Mrs. Martin (Elizabeth L. Barrett)
## 515	Coleff, Mr. Satio
## 516	Walker, Mr. William Anderson
## 517	Lemore, Mrs. (Amelia Milley)
## 518	Ryan, Mr. Patrick
## 519	Angle, Mrs. William A (Florence "Mary" Agnes Hughes)
## 520	Pavlovic, Mr. Stefo
## 521	Perreault, Miss. Anne
## 522	Vovk, Mr. Janko
## 523	Lahoud, Mr. Sarkis
## 524	Hippach, Mrs. Louis Albert (Ida Sophia Fischer)
## 525	Kassem, Mr. Fared
## 526	Farrell, Mr. James
## 527	Ridsdale, Miss. Lucy
## 528	Farthing, Mr. John
## 529	Salonen, Mr. Johan Werner
## 530	Hocking, Mr. Richard George
## 531	Quick, Miss. Phyllis May
## 532	Toufik, Mr. Nakli
## 533	Elias, Mr. Joseph Jr
## 534	Peter, Mrs. Catherine (Catherine Rizk)
## 535	Cacic, Miss. Marija
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## 536	Hart, Miss. Eva Miriam
## 537	Butt, Major. Archibald Willingham
## 538	LeRoy, Miss. Bertha
## 539	Risien, Mr. Samuel Beard
## 540	Frolicher, Miss. Hedwig Margaritha
## 541	Crosby, Miss. Harriet R
## 542	Andersson, Miss. Ingeborg 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	Robbins, Mr. Victor
## 559	Taussig, Mrs. Emil (Tillie Mandelbaum)
## 560	de Messemaeker, Mrs. Guillaume Joseph (Emma)
## 561	Morrow, Mr. Thomas Rowan
## 562	Sivic, Mr. Husein
## 563	Norman, Mr. Robert Douglas
## 564	Simmons, Mr. John
## 565	Meanwell, Miss. (Marion Ogden)
## 566	Davies, Mr. Alfred J
## 567	Stoytcheff, Mr. Ilia
## 568	Palsson, Mrs. Nils (Alma Cornelia Berglund)
## 569	Doharr, Mr. Tannous
## 570	Jonsson, Mr. Carl
## 571	Harris, Mr. George
## 572	Appleton, Mrs. Edward Dale (Charlotte Lamson)
## 573	Flynn, Mr. John Irwin ("Irving")
## 574	Kelly, Miss. Mary
## 575	Rush, Mr. Alfred George John
## 576	Patchett, Mr. George
## 577	Garside, Miss. Ethel
## 578	Silvey, Mrs. William Baird (Alice Munger)
## 579	Caram, Mrs. Joseph (Maria Elias)
## 580	Jussila, Mr. Eiriik
## 581	Christy, Miss. Julie Rachel
## 582	Thayer, Mrs. John Borland (Marian Longstreth Morris)
## 583	Downton, Mr. William James
## 584	Ross, Mr. John Hugo
## 585	Paulner, Mr. Uscher
## 586	Taussig, Miss. Ruth
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## 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	Jacobsohn, Mrs. Sidney Samuel (Amy Frances Christy)
## 602	Slabenoff, Mr. Petco
## 603	Harrington, Mr. Charles H
## 604	Torber, Mr. Ernst William
## 605	Homer, Mr. Harry ("Mr E Haven")
## 606	Lindell, Mr. Edvard Bengtsson
## 607	Karaic, Mr. Milan
## 608	Daniel, Mr. Robert Williams
## 609	Laroche, Mrs. Joseph (Juliette Marie Louise Lafargue)
## 610	Shutes, Miss. Elizabeth W
## 611	Andersson, Mrs. Anders Johan (Alfrida Konstantia Brogren)
## 612	Jardin, Mr. Jose Neto
## 613	Murphy, Miss. Margaret Jane
## 614	Horgan, Mr. John
## 615	Brocklebank, Mr. William Alfred
## 616	Herman, Miss. Alice
## 617	Danbom, Mr. Ernst Gilbert
## 618	Lobb, Mrs. William Arthur (Cordelia K Stanlick)
## 619	Becker, Miss. Marion Louise
## 620	Gavey, Mr. Lawrence
## 621	Yasbeck, Mr. Antoni
## 622	Kimball, Mr. Edwin Nelson Jr
## 623	Nakid, Mr. Sahid
## 624	Hansen, Mr. Henry Damsgaard
## 625	Bowen, Mr. David John "Dai"
## 626	Sutton, Mr. Frederick
## 627	Kirkland, Rev. Charles Leonard
## 628	Longley, Miss. Gretchen Fiske
## 629	Bostandyeff, Mr. Guentcho
## 630	O'Connell, Mr. Patrick D
## 631	Barkworth, Mr. Algernon Henry Wilson
## 632	Lundahl, Mr. Johan Svensson
## 633	Stahelin-Maeglin, Dr. Max
## 634	Parr, Mr. William Henry Marsh
## 635	Skoog, Miss. Mabel
## 636	Davis, Miss. Mary
## 637	Leinonen, Mr. Antti Gustaf

## 639	## 630	Callyon Mn Hanyoy
## 640 ## 641 ## 642 ## 642 ## 643 ## 643 ## 643 ## 644 ## 643 ## 644 ## 645 ## 645 ## 645 ## 646 ## 646 ## 646 ## 646 ## 647 ## 648 ## 648 ## 648 ## 649 ## 649 ## 649 ## 649 ## 649 ## 651 ## 652 ## 651 ## 652 ## 653 ## 654 ## 655 ## 655 ## 656 ## 657 ## 658 ## 657 ## 668 ## 668 ## 668 ## 669 ## 668 ## 669 ## 660 ##	## 638	Collyer, Mr. Harvey
## 641 ## 642 ## 643 ## 643 ## 644 ## 644 ## 644 ## 644 ## 646 ## 646 ## 646 ## 647 ## 647 ## 647 ## 648 ## 648 ## 648 ## 649 ## 649 ## 649 ## 659 ## 650 ## 651 ## 652 ## 653 ## 653 ## 655 ## 655 ## 655 ## 655 ## 655 ## 656 ## 657 ## 668 ## 668 ## 669 ## 668 ## 669 ## 668 ## 660 ## 660 ## 660 ## 661 ## 662 ## 663 ## 663 ## 663 ## 663 ## 663 ## 664 ## 665 ## 666 ## 666 ## 666 ## 666 ## 666 ## 667 ## 667 ## 668 ## 668 ## 667 ## 679 ## 679 ## 670 ## 679 ##		· · · · · · · · · · · · · · · · · · ·
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## 644 ## 645 ## 646 ## 646 ## 647 ## 648 ## 648 ## 649 ## 659 ## 650 ## 651 ## 652 ## 653 ## 653 ## 654 ## 655 ## 655 ## 656 ## 656 ## 657 ## 668 ## 669 ## 660 ## 660 ## 660 ## 660 ## 661 ## 662 ## 661 ## 662 ## 663 ## 663 ## 663 ## 664 ## 665 ## 665 ## 665 ## 666 ## 666 ## 667 ## 668 ## 667 ## 668 ## 668 ## 670 ## 670 ## 670 ## 670 ## 670 ## 670 ## 670 ## 670 ## 670 ## 670 ## 671 ## 672 ## 673 ## 674 ## 675 ## 675 ## 676 ## 677 ## 678 ## 677 ## 678 ## 678 ## 679 ## 678 ## 679 ## 678 ## 678 ## 678 ## 678 ## 678 ## 679 ## 688 ## 679 ## 688 ## 681 ## 682 ## 683 ## 684 ## 683 ## 684 ## 685 ## 684 ## 688 ## 689 ## 686 ## 686 ## 686 ## 686 ## 686 ## 686 ## 686 ## 686 ## 686 ## 686 ## 687 ## 687		
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## 646 ## 647 ## 648 ## 648 ## 648 ## 649 ## 659 ## 650 ## 650 ## 651 ## 652 ## 653 ## 653 ## 654 ## 655 ## 655 ## 655 ## 656 ## 657 ## 668 ## 667 ## 668 ## 669 ## 661 ## 661 ## 662 ## 663 ## 663 ## 663 ## 664 ## 665 ## 666 ## 666 ## 667 ## 667 ## 667 ## 668 ## 668 ## 668 ## 668 ## 669 ## 669 ## 669 ## 660 ## 660 ## 660 ## 660 ## 661 ## 665 ## 665 ## 666 ## 667 ## 666 ## 667 ## 667 ## 668 ## 667 ## 668 ## 667 ## 668 ## 669 ## 669 ## 669 ## 660 ## 660 ## 660 ## 660 ## 661 ## 663 ## 660 ## 660 ## 660 ## 661 ## 661 ## 662 ## 665 ## 666 ## 667 ## 666 ## 667 ## 668 ## 667 ## 668 ## 667 ## 668 ## 667 ## 668 ## 669 ## 669 ## 669 ## 660 ##	## 644	Foo, Mr. Choong
## 647 ## 648 ## 649 ## 650 ## 650 ## 651 ## 651 ## 652 ## 653 ## 654 ## 655 ## 655 ## 656 ## 656 ## 657 ## 657 ## 668 ## 669 ## 668 ## 669 ## 669 ## 660 ## 661 ## 661 ## 661 ## 661 ## 662 ## 663 ## 663 ## 663 ## 664 ## 666 ## 666 ## 666 ## 666 ## 667 ## 667 ## 668 ## 668 ## 668 ## 668 ## 669 ## 669 ## 669 ## 669 ## 669 ## 660 ## 660 ## 660 ## 661 ## 665 ## 666 ## 666 ## 667 ## 666 ## 667 ## 668 ## 667 ## 668 ## 668 ## 669 ## 669 ## 669 ## 668 ## 669 ## 669 ## 669 ## 669 ## 669 ## 669 ## 669 ## 669 ## 660 ## 660 ## 670 ## 661 ## 662 ## 663 ## 665 ## 666 ## 677 ## 671 ## 672 ## 673 ## 674 ## 673 ## 674 ## 675 ## 675 ## 676 ## 677 ## 678 ## 678 ## 679 ## 670 ## 679 ## 679 ## 679 ## 679 ## 679 ## 679 ## 680 ## 680 ## 681 ## 682 ## 683 ## 684 ## 685 ## 685 ## 686 ## 686 ## 686 ## 686 ## 687 ## 687 ## 687 ## 688 ## 688 ## 688 ## 688 ## 688 ## 688 ## 689 ## 680 ## 680 ## 686 ## 686 ## 686 ## 687 ## 687 ## 687 ## 687 ## 687 ## 688 ## 688 ## 689 ##	## 645	Baclini, Miss. Eugenie
## 648 ## 649 ## 659 \$Stanley, Miss Amy Zillah Elsie ## 651 ## 652 \$Doling, Miss. My Zillah Elsie ## 652 ## 653 ## 654 ## 655 ## 655 ## 655 ## 656 ## 656 ## 657 ## 658 ## 658 ## 668 Bourke, Mrs. Johannes Harvorsen ## 658 ## 660 \$Doling, Miss. Hanora "Norah" ## 650 ## 661 ## 653 ## 660 \$Doling, Miss. Hanora "Norah" ## 656 ## 661 ## 662 ## 661 ## 662 ## 663 \$Doling, Miss. Hanora "Norah" ## 664 ## 665 ## 666 \$Doling, Miss. Hanora "Norah" ## 657 ## 658 ## 660 ## 661 ## 662 ## 663 \$Doling, Miss. Hanora "Norah" ## 664 ## 665 ## 665 ## 666 \$Doling, Miss. Hanora "Norah" ## 666 ## 667 ## 668 ## 669 ## 668 ## 669 ## 670 ## 670 ## 671 ## 671 ## 672 ## 673 ## 674 ## 674 ## 675 ## 675 ## 674 ## 675 ## 675 ## 675 ## 676 \$Doling, Miss. Hanora "Norah" ## 677 \$Doling, Miss. Hanora "Norah" ## 678 ## 679 \$Doling, Miss. Hanora "Norah" ## 679 \$Doling, Miss. Hanora "Norah" ## 678 ## 679 \$Doling, Miss. Hanora "Norah" ## 679 \$Doling, Miss. Hanora "Norah" ## 678 ## 679 \$Doling, Miss. Hanora "Norah" ## 679 \$Doling, Miss. Hanora "Norah" ## 678 ## 679 \$Doling, Miss. Hanora "Norah" ## 679 \$Doling, Miss. Hanora ## 678 ## 679 \$Doling, Miss. Hanora ## 679 \$Doling, Miss. Hanora ## 679 \$Doling, Miss. Hanora ## 670 #	## 646	Harper, Mr. Henry Sleeper
## 649 ## 650 Stanley, Miss. Amy Zillah Elsie #651 #652 #653 #653 Kalvik, Mr. Johannes Halvorsen O'Leary, Miss. Hanora "Norah" #654 #655 #655 #656 #666 #67 #686 #686 #686 #67 #686 #67 #686 #67 #67 #67 #67 #67 #67 #67 #67 #686 #686	## 647	Cor, Mr. Liudevit
## 650 ## 651 ## 652 ## 653 ## 653 ## 653 ## 654 ## 655 ## 655 ## 655 ## 656 ## 656 ## 657 ## 657 ## 658 ## 658 ## 660 ## 660 ## 661 ## 662 ## 663 ## 664 ## 665 ## 666 ## 666 ## 666 ## 666 ## 667 ## 667 ## 667 ## 667 ## 668 ## 679 ## 670 ## 670 ## 670 ## 671 ## 671 ## 671 ## 672 ## 673 ## 674 ## 675 ## 676 ## 676 ## 677 ## 678 ## 679 ## 679 ## 679 ## 679 ## 679 ## 679 ## 679 ## 679 ## 679 ## 679 ## 679 ## 679 ## 679 ## 679 ## 679 ## 679 ## 670 ## 679 ## 679 ## 679 ## 679 ## 679 ## 679 ## 679 ## 679 ## 679 ## 679 ## 679 ## 679 ## 679 ## 679 ## 679 ## 679 ## 679 ## 679 ## 670 ## 673 ## 673 ## 674 ## 675 ## 675 ## 676 ## 676 ## 677 ## 678 ## 679 ## 679 ## 670 ## 670 ## 671 ## 672 ## 673 ## 674 ## 675 ## 675 ## 676 ## 676 ## 677 ## 678 ## 679 ## 678 ## 679 ## 679 ## 670 ## 670 ## 671 ## 672 ## 673 ## 674 ## 675 ## 675 ## 676 ## 676 ## 676 ## 677 ## 678 ## 679 ## 678 ## 679 ## 688 ## 689 ## 680 ## 680 ## 680 ## 680 ## 680 ## 681 ## 682 ## 683 ## 684 ## 685 ## 686 ## 687	## 648	Simonius-Blumer, Col. Oberst Alfons
## 651 ## 652 ## 653 ## 654 ## 654 ## 655 ## 655 ## 655 ## 655 ## 655 ## 656 ## 656 ## 656 ## 657 ## 657 ## 658 ## 660 ## 661 ## 662 ## 663 ## 663 ## 666 ## 666 ## 666 ## 666 ## 666 ## 666 ## 667 ## 667 ## 667 ## 667 ## 668 ## 670 ## 670 ## 670 ## 672 ## 672 ## 673 ## 674 ## 675 ## 676 ## 679 ## 680 ## 679 ## 681 ## 679 ## 682 ## 683 ## 684 ## 683 ## 684 ## 685 ## 684 ## 685 ## 686 ## 686 ## 686 ## 686 ## 687 ## 686 ## 687	## 649	Willey, Mr. Edward
## 652 ## 653 ## 654 ## 654 ## 655 ## 655 ## 655 ## 656 ## 656 ## 657 ## 656 ## 657 ## 658 ## 659 ## 660 ## 661 ## 662 ## 663 ## 663 ## 665 ## 666 ## 666 ## 666 ## 667 ## 668 ## 667 ## 668 ## 667 ## 668 ## 669 ## 670 ## 670 ## 671 ## 672 ## 673 ## 674 ## 675 ## 675 ## 675 ## 676 ## 678 ## 676 ## 678 ## 679 ## 678 ## 679 ## 679 ## 680 ## 680 ## 680 ## 680 ## 682 ## 683 ## 683 ## 684 ## 683 ## 684 ## 685 ## 684 ## 685 ## 686 Brown, Mr. Thomas William Solomon Gliziageth (Augusta Tyler) Cardeza, Mr. Thomas Drake Martinez ## 688 ## 688 ## 688 ## 688 ## 688 ## 688 ## 688 ## 688 ## 688 ## 688 ## 688 ## 688 ## 686 Laroche, Mr. Joseph Philippe Lemercier Panula, Mr. Jaako Arnold	## 650	Stanley, Miss. Amy Zillah Elsie
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## 654 ## 655 ## 656 ## 656 ## 656 ## 657 ## 658 ## 658 ## 658 ## 659 ## 660 ## 660 ## 661 ## 662 ## 663 ## 664 ## 665 ## 665 ## 666 ## 666 ## 666 ## 667 ## 667 ## 670 ## 672 ## 670 ## 671 ## 672 ## 673 ## 674 ## 674 ## 675 ## 676 ## 678 ## 678 ## 679 ## 679 ## 679 ## 678 ## 678 ## 678 ## 679 ## 678 ## 679 ## 678 ## 679 ## 678 ## 678 ## 679 ## 678 ## 679 ## 678 ## 679 ## 678 ## 679 ## 678 ## 679 ## 678 ## 679 ## 678 ## 679 ## 678 ## 679 ## 678 ## 679 ## 678 ## 679 ## 678 ## 679 ## 678 ## 679 ## 678 ## 679 ## 678 ## 679 ## 678 ## 679 ## 678 ## 678 ## 679 ## 678 ## 678 ## 679 ## 678 ## 678 ## 679 ## 678 ## 678 ## 678 ## 679 ## 680 ## 680 ## 680 ## 680 ## 681 ## 682 ## 683 ## 684 ## 685 ## 686 Brown, Mr. Thomas William Solomon Laroche, Mr. Jaako Arnold ## 686 ## 687	## 652	Doling, Miss. Elsie
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## 670 ## 671 Brown, Mrs. Elmer Zebley (Juliet Cummins Wright) ## 672 ## 672 Davidson, Mr. Thornton ## 673 ## 674 ## 675 ## 675 ## 676 ## 676 ## 677 Brown, Mrs. Thomas William Solomon (Elizabeth Catherine Ford) ## 678 ## 676 ## 677 Brown, Mrs. Thomas William Solomon (Elizabeth Catherine Ford) ## 678 ## 679 ## 678 ## 679 ## 680 ## 679 ## 680 ## 681 ## 682 ## 682 ## 683 ## 683 ## 684 ## 685 ## 685 ## 686 ## 686 ## 686 ## 686 ## 687 ## 686 ## 686 ## 687 ## 687		
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## 676 ## 677 Sawyer, Mr. Frederick Charles ## 678 Turja, Miss. Anna Sofia ## 679 Goodwin, Mrs. Frederick (Augusta Tyler) ## 680 Cardeza, Mr. Thomas Drake Martinez ## 681 ## 682 ## 683 ## 684 Goodwin, Mr. Thor Anderson ## 684 ## 685 Brown, Mr. Thomas William Solomon ## 686 Laroche, Mr. Joseph Philippe Lemercier ## 687		
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## 679 ## 680 Cardeza, Mr. Thomas Drake Martinez ## 681 Peters, Miss. Katie ## 682 Hassab, Mr. Hammad ## 683 Olsvigen, Mr. Thor Anderson Goodwin, Mr. Charles Edward ## 685 Brown, Mr. Thomas William Solomon ## 686 Laroche, Mr. Joseph Philippe Lemercier ## 687		
## 680 Cardeza, Mr. Thomas Drake Martinez ## 681 Peters, Miss. Katie ## 682 Hassab, Mr. Hammad ## 683 Olsvigen, Mr. Thor Anderson Goodwin, Mr. Charles Edward ## 685 Brown, Mr. Thomas William Solomon ## 686 Laroche, Mr. Joseph Philippe Lemercier ## 687 Panula, Mr. Jaako Arnold		
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## 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
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## 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")
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## 713	Taylor, Mr. Elmer Zebley
## 714	Larsson, Mr. August Viktor
## 715	Greenberg, Mr. Samuel
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## 719	McEvoy, Mr. Michael
## 720	Johnson, Mr. Malkolm Joackim
## 721	Harper, Miss. Annie Jessie "Nina"
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## 723	Gillespie, Mr. William Henry
## 724	Hodges, Mr. Henry Price
## 725	Chambers, Mr. Norman Campbell
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## 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
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## 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	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	Hogeboom, Mrs. John C (Anna Andrews)
## 767	Brewe, Dr. Arthur Jackson
## 768	Mangan, Miss. Mary
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## 770	Gronnestad, Mr. Daniel Danielsen
## 771	Lievens, Mr. Rene Aime
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## 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	Gaskell, Mr. Alfred
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## 794	Hoyt, Mr. William Fisher
## 795	Dantcheff, Mr. Ristiu
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## 797	Otter, Mr. Richard
	Leader, Dr. Alice (Farnham)
## 798	Osman, Mrs. Mara
## 799 ## 800	Ibrahim Shawah, Mr. Yousseff
	Van Impe, Mrs. Jean Baptiste (Rosalie Paula Govaert)
## 801	Ponesell, Mr. Martin
## 802	Collyer, Mrs. Harvey (Charlotte Annie Tate)
## 803	Carter, Master. William Thornton II
## 804	Thomas, Master. Assad Alexander
## 805	Hedman, Mr. Oskar Arvid
## 806	Johansson, Mr. Karl Johan
## 807	Andrews, Mr. Thomas Jr
## 808	Pettersson, Miss. Ellen Natalia
## 809	Meyer, Mr. August
## 810	Chambers, Mrs. Norman Campbell (Bertha Griggs)
## 811	Alexander, Mr. William
## 812	Lester, Mr. James
## 813	Slemen, Mr. Richard James
## 814	Andersson, Miss. Ebba Iris Alfrida
## 815	Tomlin, Mr. Ernest Portage
## 816	Fry, Mr. Richard
## 817	Heininen, Miss. Wendla Maria
## 818	Mallet, Mr. Albert
## 819	Holm, Mr. John Fredrik Alexander
## 820	Skoog, Master. Karl Thorsten
## 821	Hays, Mrs. Charles Melville (Clara Jennings Gregg)
## 822	Lulic, Mr. Nikola
## 823	Reuchlin, Jonkheer. John George
## 824	Moor, Mrs. (Beila)
## 825	Panula, Master. Urho Abraham
## 826	Flynn, Mr. John
## 827	Lam, Mr. Len
## 828	Mallet, Master. Andre
## 829	McCormack, Mr. Thomas Joseph
## 830	Stone, Mrs. George Nelson (Martha Evelyn)
## 831	Yasbeck, Mrs. Antoni (Selini Alexander)
## 832	Richards, Master. George Sibley
## 833	Saad, Mr. Amin
## 834	Augustsson, Mr. Albert
## 835	Allum, Mr. Owen George
## 836	Compton, Miss. Sara Rebecca
## 837	Pasic, Mr. Jakob
## 838	Sirota, Mr. Maurice
## 839	Chip, Mr. Chang
## 840	Marechal, Mr. Pierre
## 841	Alhomaki, Mr. Ilmari Rudolf

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

##	1	male	22.00	1	0	A/5 21171	7.2500	
##	2	female	38.00	1	0	PC 17599	71.2833	C85
##	3	female	26.00	0	0	STON/02. 3101282	7.9250	
##	4	female	35.00	1	0	113803	53.1000	C123
##	5	male	35.00	0	0	373450	8.0500	
##	6	male	NA	0	0	330877	8.4583	
##	7	male	54.00	0	0	17463	51.8625	E46
##	8	male	2.00	3	1	349909	21.0750	
##	9	female	27.00	0	2	347742	11.1333	
##	10	female	14.00	1	0	237736	30.0708	
##	11	female	4.00	1	1	PP 9549	16.7000	G6
##	12	female		0	0	113783		C103
##	13		20.00	0	0	A/5. 2151		
##	14		39.00	1	5	347082		
##	15	female		0	0	350406		
	16	female		0	0	248706		
##		male	2.00	4	1	382652		
##		male	NA	0	0	244373		
##		female		1	0	345763		
##		female	NA	9	0	2649		
	21		35.00	0	0	239865		
##			34.00	0	0	248698		D56
##		female		0	0	330923		D30
	24		28.00	0	0	113788		A6
##		female		3	1			AU
						349909		
##		female		1	5	347077		
	27	male	NA 10 00	0	0	2631	7.2250	622 625 627
##			19.00	3	2		263.0000	C23 C25 C27
##		female	NA	0	0	330959		
##		male	NA	0	0	349216		
	31	male		0	0	PC 17601		
##		female	NA	1	0	PC 17569		B78
	33	female		0	0		7.7500	
##			66.00	0	0	C.A. 24579		
##			28.00	1	0	PC 17604		
##			42.00	1	0	113789		
##		male		0	0	2677		
##	38		21.00	0	0	A./5. 2152		
##	39	female	18.00	2	0	345764		
##	40	female	14.00	1	0	2651	11.2417	
##	41	female	40.00	1	0	7546	9.4750	
##	42	female	27.00	1	0	11668	21.0000	
##	43	male	NA	0	0	349253	7.8958	
##	44	female	3.00	1	2	SC/Paris 2123	41.5792	
##	45	female	19.00	0	0	330958	7.8792	
##	46	male	NA	0	0	S.C./A.4. 23567	8.0500	
##	47	male	NA	1	0	370371	15.5000	
##	48	female	NA	0	0	14311	7.7500	
##	49	male	NA	2	0	2662	21.6792	
##	50	female	18.00	1	0	349237	17.8000	
##	51	male	7.00	4	1	3101295	39.6875	

##	52	male	21.00	0	0	A/4. 39886	7.8000	
##		female		1	0	PC 17572	76.7292	D33
##		female		1	0	2926	26.0000	233
##			65.00	0	1	113509	61.9792	B30
##		male	NA	0	0	19947	35.5000	C52
##		female		0	0	C.A. 31026	10.5000	352
##			28.50	0	0	2697	7.2292	
##		female		1	2	C.A. 34651	27.7500	
##			11.00	5	2	CA 2144	46.9000	
##			22.00	0	0	2669	7.2292	
##		female		0	0	113572	80.0000	B28
##			45.00	1	0	36973	83.4750	C83
##			4.00	3	2	347088	27.9000	COS
##		male	NA	0	0	PC 17605	27.7208	
##		male	NA	1	1	2661	15.2458	
##		female		0	0	C.A. 29395	10.5000	F33
##	_		19.00	0	0	S.P. 3464	8.1583	133
##		female		4	2	3101281	7.9250	
##	_		26.00	2	0	315151	8.6625	
##			32.00	0	0	C.A. 33111	10.5000	
##		female		5	2	CA 2144	46.9000	
##			21.00	0	0	S.O.C. 14879	73.5000	
##			26.00	1	0	2680	14.4542	
##			32.00	0	0	1601	56.4958	
##			25.00	0	0	348123	7.6500	F G73
##		male	NA	0	0	349208	7.8958	. 3/3
##		male	NA	0	0	374746	8.0500	
##		male	0.83	0	2	248738	29.0000	
##		female		0	0	364516	12.4750	
##			22.00	0	0	345767	9.0000	
##			29.00	0	0	345779		
##		female	NA	0	0	330932	7.7875	
##	84	male	28.00	0	0	113059	47.1000	
##		female		0	0	SO/C 14885		
##		female		3	0	3101278		
##			16.00	1	3	W./C. 6608		
##	88	male	NA	0	0	SOTON/OQ 392086	8.0500	
##	89	female	23.00	3	2	19950	263.0000	C23 C25 C27
##		male	24.00	0	0	343275	8.0500	
##			29.00	0	0	343276		
##			20.00	0	0	347466		
##	93	male	46.00	1	0	W.E.P. 5734	61.1750	E31
##	94	male	26.00	1	2	C.A. 2315	20.5750	
##	95	male	59.00	0	0	364500	7.2500	
##	96	male	NA	0	0	374910	8.0500	
##	97	male	71.00	0	0	PC 17754	34.6542	A5
##	98	male	23.00	0	1	PC 17759	63.3583	D10 D12
##	99	female	34.00	0	1	231919	23.0000	
##	100	male	34.00	1	0	244367	26.0000	
##	101	female	28.00	0	0	349245	7.8958	
##	102	male	NA	0	0	349215	7.8958	

##	103	male	21.00	0	1	35281	77.2875	D26
##	104	male	33.00	0	0	7540	8.6542	
##	105	male	37.00	2	0	3101276	7.9250	
##	106	male	28.00	0	0	349207	7.8958	
##	107	female	21.00	0	0	343120	7.6500	
##	108	male	NA	0	0	312991	7.7750	
##	109	male	38.00	0	0	349249	7.8958	
##	110	female	NA	1	0	371110	24.1500	
##	111	male	47.00	0	0	110465	52.0000	C110
##	112	female	14.50	1	0	2665	14.4542	
##	113	male	22.00	0	0		8.0500	
		female		1	0		9.8250	
		female		0	0	2627		
	116		21.00	0	0	STON/O 2. 3101294		
	117	male		0	0		7.7500	
	118		29.00	1	0	11668		
	119		24.00	0	1	PC 17558		B58 B60
		female		4	2		31.2750	230 200
	121		21.00	2	0	S.O.C. 14879		
	122	male	NA	0	0	A4. 54510		
	123		32.50	1	0	237736		
					0			E101
		female		0		27267		E101
	125		54.00	0	1	35281		D26
	126			1	0	2651		
	127	male	NA	0	0		7.7500	
	128		24.00	0	0	C 17369		
		female	NA	1	1	2668		F E69
	130		45.00	0	0	347061	6.9750	
	131	male		0	0		7.8958	
	132	male		0		SOTON/O.Q. 3101307		
		female		1	0	A/5. 3337		
		female		1	0	228414		
		male		0	0	C.A. 29178		
##	136	male	23.00	0	0	SC/PARIS 2133	15.0458	
##	137	female	19.00	0	2	11752	26.2833	D47
##	138	male	37.00	1	0	113803	53.1000	C123
##	139	male	16.00	0	0	7534	9.2167	
##	140	male	24.00	0	0	PC 17593	79.2000	B86
##	141	female	NA	0	2	2678	15.2458	
##	142	female	22.00	0	0	347081	7.7500	
##	143	female	24.00	1	0	STON/02. 3101279	15.8500	
##	144	male	19.00	0	0	365222	6.7500	
##	145	male	18.00	0	0	231945	11.5000	
##	146	male	19.00	1	1	C.A. 33112	36.7500	
##	147	male	27.00	0	0	350043	7.7958	
##	148	female	9.00	2	2	W./C. 6608	34.3750	
	149		36.50	0	2	230080		F2
	150			0	0	244310		
	151		51.00	0	0	S.O.P. 1166		
		female		1	0		66.6000	C2
	153		55.50	0	0	A.5. 11206		
				•	•			

##	154	male	40.50	0	2	A/5. 851	14.5000	
##	155	male	NA	0	0	Fa 265302	7.3125	
##	156	male	51.00	0	1	PC 17597	61.3792	
##	157	female	16.00	0	0	35851	7.7333	
##	158	male	30.00	0	0	SOTON/OQ 392090	8.0500	
##	159	male	NA	0	0	315037	8.6625	
##	160	male	NA	8	2	CA. 2343	69.5500	
##	161	male	44.00	0	1	371362	16.1000	
##	162	female	40.00	0	0	C.A. 33595	15.7500	
##	163	male	26.00	0	0	347068	7.7750	
##	164	male	17.00	0	0	315093	8.6625	
##	165	male	1.00	4	1	3101295	39.6875	
##	166	male	9.00	0	2	363291	20.5250	
##	167	female	NA	0	1	113505	55.0000	E33
##	168	female	45.00	1	4	347088	27.9000	
##	169	male	NA	0	0	PC 17318	25.9250	
##	170	male	28.00	0	0	1601	56.4958	
##	171	male	61.00	0	0	111240	33.5000	B19
##	172	male	4.00	4	1	382652	29.1250	
##	173	female	1.00	1	1	347742	11.1333	
##	174	male	21.00	0	0	STON/O 2. 3101280	7.9250	
##	175	male	56.00	0	0	17764	30.6958	A7
##	176	male	18.00	1	1	350404	7.8542	
##	177	male	NA	3	1	4133	25.4667	
##	178	female	50.00	0	0	PC 17595	28.7125	C49
##	179	male	30.00	0	0	250653	13.0000	
##	180	male	36.00	0	0	LINE	0.0000	
##	181	female	NA	8	2	CA. 2343	69.5500	
##	182	male	NA	0	0	SC/PARIS 2131	15.0500	
##	183	male	9.00	4	2	347077	31.3875	
##	184	male	1.00	2	1	230136		F4
##	185	female	4.00	0	2	315153	22.0250	
##	186	male	NA	0	0	113767	50.0000	A32
##	187	female	NA	1	0	370365	15.5000	
##	188	male	45.00	0	0	111428	26.5500	
##	189	male	40.00	1	1	364849	15.5000	
##	190	male	36.00	0	0	349247	7.8958	
##	191	female	32.00	0	0	234604	13.0000	
##	192	male	19.00	0	0	28424	13.0000	
##	193	female	19.00	1	0	350046	7.8542	
##	194	male	3.00	1	1	230080	26.0000	F2
##	195	female	44.00	0	0	PC 17610	27.7208	В4
##	196	female	58.00	0	0	PC 17569	146.5208	B80
##	197	male	NA	0	0	368703	7.7500	
##	198	male	42.00	0	1	4579	8.4042	
##	199	female	NA	0	0	370370	7.7500	
##	200	female	24.00	0	0	248747	13.0000	
##	201	male	28.00	0	0	345770	9.5000	
	202	male	NA	8	2	CA. 2343		
	203		34.00	0	0	3101264		
##	204	male	45.50	0	0	2628		

##	205	male	18.00	0	0	A/5 3540	8.0500	
##	206	female	2.00	0	1	347054	10.4625	G6
##	207	male	32.00	1	0	3101278	15.8500	
##	208	male	26.00	0	0	2699	18.7875	
##	209	female	16.00	0	0	367231	7.7500	
##	210	male	40.00	0	0	112277	31.0000	A31
##	211	male	24.00	0	0	SOTON/0.Q. 3101311	7.0500	
##	212	female	35.00	0	0	F.C.C. 13528	21.0000	
##	213	male	22.00	0	0	A/5 21174	7.2500	
##	214	male	30.00	0	0	250646	13.0000	
##	215	male	NA	1	0	367229	7.7500	
##	216	female	31.00	1	0	35273	113.2750	D36
##	217	female	27.00	0	0	STON/02. 3101283	7.9250	
##	218	male	42.00	1	0	243847	27.0000	
##	219	female	32.00	0	0	11813	76.2917	D15
##	220	male	30.00	0	0	W/C 14208		
##	221		16.00	0	0	SOTON/OQ 392089		
	222		27.00	0	0	_	13.0000	
	223		51.00	0	0	21440	8.0500	
	224	male	NA	0	0		7.8958	
	225		38.00	1	0	19943		C93
	226		22.00	9	0	PP 4348		555
	227		19.00	0	0	SW/PP 751		
	228		20.50	0	0	A/5 21173		
	229		18.00	0	0	236171		
		female		3	1	4133		
		female		1	0	36973		C83
	232		29.00	0	0	347067		683
	233		59.00	0	0	237442		
		female		4	2	347077		
	235		24.00	0	0	C.A. 29566		
		female	24.00 NA	0	0	W./C. 6609	7.5500	
				1	0	w./c. 6009 26707		
		female		0	2	C.A. 31921		
	239	male		0	0	28665		
				0		SCO/W 1585		
		male female			0 0	•		
		female		1 1		2665		
					0	367230 W /C 14263		
	243		29.00	0	0	W./C. 14263		
		male		0	0	STON/O 2. 3101275		
				0	0		7.2250	670
		male		2	0	19928		C78
		female		0	0	347071		
		female		0	2	250649		
	249		37.00	1	1	11751		D35
		male		1	0	244252		
				0	0		7.2500	
		female		1	1	347054		G6
	253	male		0	0	113514		C87
		male		1	0	A/5. 3336		
##	255	female	41.00	0	2	370129	20.2125	

##	256	female	29.00	0	2	2650	15.2458	
##	257	female	NA	0	0	PC 17585	79.2000	
##	258	female	30.00	0	0	110152	86.5000	B77
##	259	female	35.00	0	0	PC 17755	512.3292	
##	260	female	50.00	0	1	230433	26.0000	
##	261	male	NA	0	0	384461	7.7500	
##	262	male	3.00	4	2	347077		
##	263	male	52.00	1	1	110413	79.6500	E67
##	264	male	40.00	0	0	112059	0.0000	B94
##	265	female	NA	0	0		7.7500	
	266		36.00	0	0	C.A. 17248		
	267	male		4	1	3101295		
	268		25.00	1	0	347083	7.7750	
		female		0	1	PC 17582		C125
		female		0	0	PC 17760		C99
	271	male	NA	0	0	113798	31.0000	CSS
	272		25.00	0	0	LINE	0.0000	
		female		0	1	250644		
	274		37.00	0	1	PC 17596		C118
		female	NA	0	0	370375	7.7500	CIIO
		female		1	0	13502	77.9583	D7
		female		0	0	347073	7.7500	D7
	278	male	43.00 NA	0	0	239853	0.0000	
		male		4	1			
	279				1	382652		
		female		1		C.A. 2673		
	281		65.00	0	0	336439	7.7500	
	282		28.00	0	0	347464		
	283		16.00	0	0	345778		
	284		19.00	0	0	A/5. 10482	8.0500	410
	285	male	NA	0	0	113056	26.0000	A19
	286		33.00	0	0	349239	8.6625	
	287		30.00	0	0	345774	9.5000	
		male		0	0	349206		
		male		0	0		13.0000	
		female		0	0		7.7500	
		female		0	0	19877		
		female		1	0	11967		B49
	293		36.00	0	0	SC/Paris 2163		D
		female		0	0	349236		
	295		24.00	0	0		7.8958	
				0	0	PC 17612		
		male		0	0	2693	7.2292	
		female		1	2		151.5500	C22 C26
	299	male		0	0		30.5000	C106
		female		0	1	PC 17558		B58 B60
		female	NA	0	0	9234		
	302	male		2	0		23.2500	
	303		19.00	0	0	LINE		
		female		0	0	226593		E101
	305	male		0	0	A/5 2466		
##	306	male	0.92	1	2	113781	151.5500	C22 C26

#	# 307	female	NA	0	0	17/121	110.8833	
		female		1	0			CGE
					_	PC 17758 P/PP 3381		C65
	# 309 # 310		30.00	1	0	,		F36
		female		0	0	PC 17485		E36
		female		0	0		83.1583	C54
		female		2	2			B57 B59 B63 B66
		female		1	1	250651		
	# 314 # 315		28.00	0	0		7.8958	
		male		1	1	F.C.C. 13529		
#		female		0	0	347470		
		female		1	0	244367		
	# 318		54.00	0	0	29011		
		female		0	2		164.8667	C7
		female		1	1		134.5000	E34
	# 321		22.00	0	0	A/5 21172		
#	_		27.00	0	0		7.8958	
		female		0	0		12.3500	
		female		1	1	248738		
	# 325	male		8	2	CA. 2343		
		female		0	0	PC 17760		C32
	# 327		61.00	0	0	345364	6.2375	
		female		0	0	28551	13.0000	D
		female		1	1	363291		
		female		0	1	111361	57.9792	B18
#	# 331	female	NA	2	0	367226	23.2500	
#	# 332	male	45.50	0	0	113043	28.5000	C124
#	# 333	male	38.00	0	1	PC 17582		C91
#	# 334	male	16.00	2	0	345764	18.0000	
#	# 335	female	NA	1	0	PC 17611	133.6500	
#	# 336	male	NA	0	0	349225	7.8958	
#	# 337	male	29.00	1	0	113776	66.6000	C2
#	# 338	female	41.00	0	0	16966	134.5000	E40
#	# 339	male	45.00	0	0	7598	8.0500	
#	# 340	male	45.00	0	0	113784	35.5000	T
#	# 341	male	2.00	1	1	230080	26.0000	F2
#	# 342	female	24.00	3	2	19950	263.0000	C23 C25 C27
#	# 343	male	28.00	0	0	248740	13.0000	
#	# 344	male	25.00	0	0	244361	13.0000	
#	# 345	male	36.00	0	0	229236	13.0000	
#	# 346	female	24.00	0	0	248733	13.0000	F33
#	# 347	female	40.00	0	0	31418	13.0000	
#	# 348	female	NA	1	0	386525	16.1000	
#	# 349	male	3.00	1	1	C.A. 37671	15.9000	
#	# 350	male	42.00	0	0	315088	8.6625	
#	# 351	male	23.00	0	0	7267	9.2250	
#	# 352	male	NA	0	0	113510	35.0000	C128
#	# 353	male	15.00	1	1	2695	7.2292	
#	# 354	male	25.00	1	0	349237	17.8000	
#	# 355	male	NA	0	0	2647	7.2250	
#	# 356	male	28.00	0	0	345783	9.5000	
#	# 357	female	22.00	0	1	113505	55.0000	E33

##	358	female	38.00	0	0	237671	13.0000	
##	359	female	NA	0	0	330931	7.8792	
##	360	female	NA	0	0	330980	7.8792	
##	361	male	40.00	1	4	347088	27.9000	
##	362	male	29.00	1	0	SC/PARIS 2167	27.7208	
##	363	female	45.00	0	1	2691	14.4542	
##	364	male	35.00	0	0	SOTON/O.Q. 3101310	7.0500	
##	365	male	NA	1	0	370365		
##	366	male	30.00	0	0	C 7076	7.2500	
##	367	female	60.00	1	0	110813	75.2500	D37
##	368	female	NA	0	0	2626		
		female		0	0		7.7500	
		female		0	0	PC 17477		B35
		male		1	0	11765		E50
		male		1	0		6.4958	
		male		0	0		8.0500	
		male		0	0	PC 17760		
		female		3	1		21.0750	
		female		1	0	PC 17604		
		female						
				0	0	C 7077		COD
		male		0	2		211.5000	C82
		male		0	0	2648	4.0125	
		male		0	0	347069		
		female		0	0	PC 17757		
		female		0	2		15.7417	
	383		32.00	0	0	STON/O 2. 3101293		
		female		1	0	113789		
	385	male		0	0		7.8958	
		male		0	0	S.O.C. 14879		
	387		1.00	5	2	CA 2144	46.9000	
##	388	female	36.00	0	0	27849	13.0000	
##	389	male	NA	0	0	367655	7.7292	
##	390	female	17.00	0	0	SC 1748	12.0000	
##	391	male	36.00	1	2	113760	120.0000	B96 B98
##	392	male	21.00	0	0	350034	7.7958	
##	393	male	28.00	2	0	3101277	7.9250	
##	394	female	23.00	1	0	35273	113.2750	D36
##	395	female	24.00	0	2	PP 9549	16.7000	G6
##	396	male	22.00	0	0	350052	7.7958	
##	397	female	31.00	0	0	350407	7.8542	
##	398	male	46.00	0	0	28403	26.0000	
##	399	male	23.00	0	0	244278	10.5000	
##	400	female	28.00	0	0	240929	12.6500	
##	401	male	39.00	0	0	STON/O 2. 3101289	7.9250	
	402		26.00	0	0		8.0500	
		female		1	0		9.8250	
	404		28.00	1	0	STON/02. 3101279		
		female		0	0	315096	8.6625	
	406		34.00	1	0	28664		
	407		51.00	0	0	347064	7.7500	
	408		3.00	1	1	29106		
				_	_			

##	409	male	21.00	0	0	312992	7.7750	
##	410	female	NA	3	1	4133	25.4667	
##	411	male	NA	0	0	349222	7.8958	
##	412	male	NA	0	0	394140	6.8583	
##	413	female	33.00	1	0	19928	90.0000	C78
##	414	male	NA	0	0	239853	0.0000	
##	415	male	44.00	0	0	STON/O 2. 3101269	7.9250	
##	416	female	NA	0	0	343095	8.0500	
##	417	female	34.00	1	1	28220	32.5000	
##	418	female	18.00	0	2	250652	13.0000	
##	419	male	30.00	0	0	28228	13.0000	
##	420	female	10.00	0	2	345773		
	421	male		0	0		7.8958	
	422	male		0	0	A/5. 13032		
	423	male		0	0		7.8750	
		female		1	1	347080		
	425		18.00	1	1	370129		
	426	male	NA	0	0	A/4. 34244		
		female		1	0	2003		
		female		0	0		26.0000	
	429	male	NA	0	0		7.7500	
	430		32.00	0	0	SOTON/O.Q. 392078		E10
					0			
	431		28.00	0		110564		C52
		female	NA 42 00	1	0	376564		
		female		1	0	SC/AH 3085		
	434	male		0	0	STON/O 2. 3101274		544
	435		50.00	1	0	13507	55.9000	E44
		female		1	2		120.0000	B96 B98
		female		2	2	W./C. 6608		
		female		2	3	29106	18.7500	
	439		64.00	1	4		263.0000	C23 C25 C27
	440		31.00	0	0	C.A. 18723		
		female		1	1	F.C.C. 13529		
	442		20.00	0	0	345769		
		male		1	0		7.7750	
		female		0	0	230434		
	445	male		0	0	65306		
	446		4.00	0	2	33638	81.8583	A34
		female		0	1	250644		
##	448	male	34.00	0	0	113794	26.5500	
##	449	female	5.00	2	1	2666	19.2583	
##	450	male	52.00	0	0	113786	30.5000	C104
##	451	male	36.00	1	2	C.A. 34651	27.7500	
##	452	male	NA	1	0	65303	19.9667	
##	453	male	30.00	0	0	113051	27.7500	C111
##	454	male	49.00	1	0	17453	89.1042	C92
##	455	male	NA	0	0	A/5 2817	8.0500	
##	456	male	29.00	0	0	349240	7.8958	
##	457	male	65.00	0	0	13509	26.5500	E38
##	458	female	NA	1	0	17464	51.8625	D21
##	459	female	50.00	0	0	F.C.C. 13531	10.5000	

##	460	male	NA	0	0	371060	7.7500	
##	461	male	48.00	0	0	19952	26.5500	E12
##	462	male	34.00	0	0	364506	8.0500	
##	463	male	47.00	0	0	111320	38.5000	E63
##	464	male	48.00	0	0	234360	13.0000	
##	465	male	NA	0	0	A/S 2816	8.0500	
##	466	male	38.00	0	0	SOTON/O.Q. 3101306	7.0500	
##	467	male	NA	0	0	239853	0.0000	
##	468	male	56.00	0	0	113792	26.5500	
##	469	male	NA	0	0	36209	7.7250	
##	470	female	0.75	2	1	2666	19.2583	
##	471	male	NA	0	0	323592	7.2500	
##	472		38.00	0	0	315089		
##	473	female		1	2	C.A. 34651		
		female		0	0	SC/AH Basle 541		D
		female		0	0	7553	9.8375	
	476	male	NA	0	0	110465		A14
	477		34.00	1	0	31027		
	478	male		1	0	3460	7.0458	
	479		22.00	9	0	350060	7.5208	
		female		0	1	3101298		
	481	male		5	2	CA 2144		
	482	male	NA	0	0	239854		
	483		50.00	0	0	A/5 3594		
		female		0	0	4134		
	485		25.00	1	0	11967		B49
		female	NA	3	1	4133	25.4667	040
		female		1	0	19943	90.0000	C93
	488		58.00	0	0	11771		B37
	489		30.00	0	0	A.5. 18509	8.0500	637
	490	male	9.00	1	1	C.A. 37671		
	491	male	NA	1	0	65304	19.9667	
	492		21.00	0	0	SOTON/OQ 3101317		
	493		55.00	0	0	113787		C30
	494		71.00	0	0	PC 17609		C30
	495		21.00	0	0	A/4 45380		
	496	male	NA	0	0	2627		
		female		1	0	36947		D20
	498	male		0	0	C.A. 6212		D20
		female			2			C22 C26
				1			151.5500	C22 C26
	500		24.00	0	0	350035		
	501	male		0	0	315086		
		female		0	0	364846		
		female		0	0	330909		
		female		0	0	4135		P.70
		female		0	0	110152		B79
	506		18.00	1	0	PC 17758		C65
		female		0	2	26360		
	508	male	NA	0	0	111427		
	509		28.00	0	0	C 4001		
##	510	ma⊥e	26.00	0	0	1601	56.4958	

##	511	male	29.00	0	0	382651	7.7500	
##	512	male	NA	0	0	SOTON/OQ 3101316	8.0500	
##	513	male	36.00	0	0	PC 17473	26.2875	E25
##	514	female	54.00	1	0	PC 17603	59.4000	
##	515	male	24.00	0	0	349209	7.4958	
##	516	male	47.00	0	0	36967	34.0208	D46
##	517	female	34.00	0	0	C.A. 34260	10.5000	F33
##	518	male	NA	0	0	371110	24.1500	
##	519	female	36.00	1	0	226875	26.0000	
##	520	male	32.00	0	0	349242	7.8958	
##	521	female	30.00	0	0	12749	93.5000	B73
##	522	male	22.00	0	0	349252	7.8958	
##	523	male	NA	0	0	2624	7.2250	
##	524	female	44.00	0	1	111361	57.9792	B18
##	525	male	NA	0	0	2700	7.2292	
##	526		40.50	0	0	367232	7.7500	
##	527	female		0	0	W./C. 14258		
	528	male		0	0	PC 17483		C95
		male		0	0		7.9250	
	530	male		2	1	29104		
		female		1	1	26360		
	532	male		0	0		7.2292	
	533		17.00	1	1	2690		
		female		0	2	2668		
		female		0	0		8.6625	
		female		0	2	F.C.C. 13529		
	537		45.00	0	0	113050		B38
		female		0	0	PC 17761		550
	539	male		0	0	364498		
		female		0	2		49.5000	B39
		female		0	2	WE/P 5735		B22
		female		4	2	347082	31.2750	522
		female		4	2		31.2750	
	544		32.00	1	0		26.0000	
		male		1	0	PC 17761		C86
	546		64.00	0	0	693		600
		female		1	0	2908		
	548	male		0	0	SC/PARIS 2146		
	549		33.00	1	1		20.5250	
	550		8.00	1	1	C.A. 33112		
	551		17.00	0	2		110.8833	C70
	552		27.00	0	0	244358		C70
		male		0	0			
	553		NA 22.00			330979		
	554			0	0	2620		
		female		0	0		7.7750	
	556		62.00	0	0		26.5500	A10
		female		1	0		39.6000	A16
	558	male	NA	0	0	PC 17757		F.C.
		female		1	1	110413		E67
		female		1	0	345572		
##	561	male	NA	0	0	372622	7.7500	

##	562	male	40.00	0	0	349251	7.8958	
##	563	male	28.00	0	0	218629	13.5000	
##	564	male	NA	0	0	SOTON/OQ 392082	8.0500	
##	565	female	NA	0	0	SOTON/O.Q. 392087	8.0500	
##	566	male	24.00	2	0	A/4 48871	24.1500	
##	567	male	19.00	0	0	349205	7.8958	
##	568	female	29.00	0	4	349909	21.0750	
##	569	male	NA	0	0	2686	7.2292	
##	570	male	32.00	0	0	350417	7.8542	
##	571		62.00	0	0	S.W./PP 752		
##	572	female		2	0	11769		C101
	573		36.00	0	0	PC 17474		E25
		female		0	0		7.7500	
	575	male		0	0	A/4. 20589		
			19.00	0	0	358585		
		female		0	0	243880		
		female		1	0	13507		E44
		female		1	0	2689		LTT
	580		32.00	0	0	STON/O 2. 3101286		
		female		1	1	237789		
		female			1			C69
				1			110.8833	C68
	583		54.00	0	0	28403		410
	584		36.00	0	0	13049		A10
	585	male		0	0	3411		560
		female		0	2		79.6500	E68
	587		47.00	0	0	237565		
	588		60.00	1	1	13567		B41
	589		22.00	0	0	14973		
	590	male	NA	0	0	A./5. 3235		
	591		35.00	0	0	•		
		female		1	0	36947		D20
##	593	male	47.00	0	0	A/5 3902	7.2500	
##		female		0	2		7.7500	
##	595	male	37.00	1	0	SC/AH 29037	26.0000	
##	596	male	36.00	1	1	345773	24.1500	
##	597	female	NA	0	0	248727	33.0000	
##	598	male	49.00	0	0	LINE	0.0000	
##	599	male	NA	0	0	2664	7.2250	
##	600	male	49.00	1	0	PC 17485	56.9292	A20
##	601	female	24.00	2	1	243847	27.0000	
##	602	male	NA	0	0	349214	7.8958	
##	603	male	NA	0	0	113796	42.4000	
##	604	male	44.00	0	0	364511	8.0500	
##	605	male	35.00	0	0	111426	26.5500	
##	606	male	36.00	1	0	349910	15.5500	
		male		0	0		7.8958	
		male		0	0		30.5000	
		female		1	2	SC/Paris 2123		
		female		9	0		153.4625	C125
		female		1	5		31.2750	3-23
	612			0		SOTON/O.Q. 3101305		
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##	613	female	NA	1	0	367230	15.5000	
##	614	male	NA	0	0	370377	7.7500	
##	615	male	35.00	0	0	364512	8.0500	
##	616	female	24.00	1	2	220845	65.0000	
##	617	male	34.00	1	1	347080	14.4000	
##	618	female	26.00	1	0	A/5. 3336	16.1000	
##	619	female	4.00	2	1	230136		F4
	620		26.00	0	0	31028	10.5000	
##	621	male	27.00	1	0	2659	14.4542	
##	622		42.00	1	0	11753	52.5542	D19
##	623		20.00	1	1	2653	15.7417	
	624	male	21.00	0	0	350029		
	625		21.00	0	0	54636		
	626		61.00	0	0	36963	32.3208	D50
	627		57.00	0	0	219533	12.3500	
		female		0	0	13502		D9
	629		26.00	0	0	349224	7.8958	
	630	male	NA	0	0	334912		
	631		80.00	0	0	27042		A23
	632		51.00	0	0	347743	7.0542	,,_5
	633		32.00	0	0	13214		B50
	634	male	NA	0	0	112052	0.0000	220
##		female	9.00	3	2	347088	27.9000	
		female		0	0	237668		
	637		32.00	0	0	STON/O 2. 3101292		
##			31.00	1	1	C.A. 31921		
		female		0	5	3101295		
	640	male	NA	1	0	376564		
	641		20.00	0	0	350050	7.8542	
		female		0	0	PC 17477		B35
##		female	2.00	3	2	347088	27.9000	555
	644	male	NA	0	0	1601	56.4958	
		female		2	1	2666		
	646		48.00	1	0	PC 17572		D33
		male		0	0		7.8958	555
	648			0	0	13213		A26
	649			0	0	S.O./P.P. 751		AZU
		female		0	0	CA. 2314		
	651	male	NA	0	0	349221		
		female		0	1	231919		
	653		21.00	0	0	8475		
		female	NA	0	0	330919		
		female		0	0		6.7500	
	656		24.00	2	0	S.O.C. 14879		
	657	male	NA	0	0	349223		
		female		1	1	364849		
	659		23.00	0	0	29751		
	660		58.00	0	2		113.2750	D48
	661		50.00	2	0	PC 17611		υ48
	662		40.00	0	0		7.2250	
	663		47.00	0	0	5727		E58
##	003	шате	+/.00	v	v	5/2/	25.5875	E38

##	664	male	36.00	0	0	349210	7.4958	
##	665	male	20.00	1	0	STON/0 2. 3101285	7.9250	
##	666	male	32.00	2	0	S.O.C. 14879	73.5000	
##	667	male	25.00	0	0	234686	13.0000	
##	668	male	NA	0	0	312993	7.7750	
##	669	male	43.00	0	0	A/5 3536	8.0500	
##	670	female	NA	1	0	19996	52.0000	C126
##	671	female	40.00	1	1	29750	39.0000	
##	672	male	31.00	1	0	F.C. 12750	52.0000	B71
##	673	male	70.00	0	0	C.A. 24580	10.5000	
##	674	male	31.00	0	0	244270	13.0000	
##	675	male	NA	0	0	239856	0.0000	
	676	male	18.00	0	0	349912		
	677		24.50	0	0	342826		
		female		0	0	4138		
		female		1	6	CA 2144		
	680		36.00	9	1		512.3292	B51 B53 B55
		female	NA	0	0	330935	8.1375	531 533 533
	682		27.00	0	0	PC 17572		D49
	683		20.00	0	0	6563	9.2250	D 4 3
	684		14.00	5	2		46.9000	
	685		60.00	1	1	29750		
	686		25.00	1	2			
						SC/Paris 2123		
	687		14.00	4	1	3101295		
	688		19.00	0	0	349228		
	689		18.00	0	0	350036	7.7958	5.5
		female		0	1		211.3375	B5
	691		31.00	1	0	17474	57.0000	B20
		female		0	1	349256		
	693	male -	NA	0	0	1601		
	694		25.00	0	0	2672	7.2250	
	695		60.00	0	0	113800	26.5500	
	696		52.00	0	0	248731		
	697		44.00	0	0	363592		
		female		0	0	35852		
	699		49.00	1	1		110.8833	C68
			42.00	0	0	348121	7.6500	F G63
		female		1	0		227.5250	C62 C64
	702		35.00	0	0	PC 17475		E24
##	703	female		0	1	2691	14.4542	
##	704	male	25.00	0	0	36864	7.7417	
##	705	male	26.00	1	0	350025	7.8542	
##	706	male	39.00	0	0	250655	26.0000	
##	707	female	45.00	0	0	223596	13.5000	
##	708	male	42.00	0	0	PC 17476	26.2875	E24
##	709	female	22.00	0	0	113781	151.5500	
##	710	male	NA	1	1	2661	15.2458	
##	711	female	24.00	0	0	PC 17482	49.5042	C90
##	712	male	NA	0	0	113028	26.5500	C124
##	713	male	48.00	1	0	19996	52.0000	C126
##	714	male	29.00	0	0	7545	9.4833	

##	715	male	52.00	0	0	250647	13.0000	
##	716	male	19.00	0	0	348124	7.6500	F G73
##	717	female	38.00	0	0	PC 17757	227.5250	C45
##	718	female	27.00	0	0	34218	10.5000	E101
##	719	male	NA	0	0	36568	15.5000	
##	720	male	33.00	0	0	347062	7.7750	
##	721	female	6.00	0	1	248727	33.0000	
##	722	male	17.00	1	0	350048	7.0542	
##	723	male	34.00	0	0	12233	13.0000	
##	724	male	50.00	0	0	250643	13.0000	
##	725	male	27.00	1	0	113806	53.1000	E8
##	726	male	20.00	0	0	315094	8.6625	
##	727	female	30.00	3	0	31027	21.0000	
##	728	female	NA	0	0	36866	7.7375	
##	729	male	25.00	1	0	236853	26.0000	
##	730	female	25.00	1	0	STON/02. 3101271	7.9250	
##	731	female	29.00	0	0	24160	211.3375	В5
##	732	male	11.00	0	0	2699	18.7875	
##	733	male	NA	0	0	239855	0.0000	
##	734	male	23.00	0	0	28425	13.0000	
##	735	male	23.00	0	0	233639	13.0000	
##	736	male	28.50	0	0	54636	16.1000	
##	737	female	48.00	1	3	W./C. 6608		
##	738	male	35.00	0	0	PC 17755		B101
##	739	male		0	0		7.8958	
##	740	male	NA	0	0	349218	7.8958	
##	741	male	NA	0	0	16988		D45
##	742	male	36.00	1	0	19877		C46
##	743	female		2	2	PC 17608		B57 B59 B63 B66
	744		24.00	1	0	376566		
##	745		31.00	0	0	STON/O 2. 3101288		
##	746	male	70.00	1	1	WE/P 5735	71.0000	B22
##	747	male	16.00	1	1	C.A. 2673	20.2500	
##	748	female	30.00	0	0	250648		
	749		19.00	1	0	113773		D30
##	750	male	31.00	0	0	335097	7.7500	
		female		1	1	29103		
	752		6.00	0	1	392096		E121
	753	male	33.00	0	0	345780	9.5000	
	754	male	23.00	0	0	349204		
		female		1	2	220845		
	756		0.67	1	1	250649		
	757		28.00	0	0	350042		
	758		18.00	0	0	29108		
	759		34.00	0	0	363294		
		female		0	0	110152		B77
	761	male		0	0	358585		_,,
	762		41.00	0	0	SOTON/02 3101272		
	763		20.00	0	0	2663	7.2292	
		female		1	2		120.0000	B96 B98
	765		16.00	0	0	347074		_30 _30
				Ŭ	ŭ	31,074	1 1.755	

##	766	female	51.00	1	0	13502	77.9583	D11
##	767	male	NA	0	0	112379	39.6000	
##	768	female	30.50	0	0	364850	7.7500	
##	769	male	NA	1	0	371110	24.1500	
##	770	male	32.00	0	0	8471	8.3625	
##	771	male	24.00	0	0	345781	9.5000	
##	772	male	48.00	0	0	350047	7.8542	
##	773	female	57.00	0	0	S.O./P.P. 3	10.5000	E77
##	774	male	NA	0	0	2674	7.2250	
##	775	female	54.00	1	3	29105	23.0000	
##	776	male	18.00	0	0	347078	7.7500	
##	777	male	NA	0	0		7.7500	F38
##	778	female	5.00	0	0		12.4750	
##	779	male	NA	0	0	36865	7.7375	
##	780	female	43.00	0	1		211.3375	В3
		female		0	0		7.2292	
		female		1	0	17474		B20
	783		29.00	0	0		30.0000	D6
	784	male	NA	1	2	W./C. 6607		
	785	male		0		SOTON/O.Q. 3101312		
	786		25.00	0	0	374887		
		female		0	0		7.4958	
	788		8.00	4	1		29.1250	
	789		1.00	1	2	C.A. 2315		
	790	male		0	0	PC 17593		B82 B84
	791	male	NA	0	0	12460	7.7500	502 50 .
	792		16.00	0	0	239865		
		female	NA	8	2	CA. 2343		
	794	male	NA	0	0	PC 17600		
		male		0	0	349203		
	796	male		0	0	28213		
		female		0	0	17465	25.9292	D17
		female		0	0	349244		51,
	799		30.00	0	0		7.2292	
		female		1	1		24.1500	
	801		34.00	0	0	250647		
		female		1	1	C.A. 31921		
	803		11.00	1	2		120.0000	B96 B98
	804		0.42	0	1	2625	8.5167	550 550
	805		27.00	0	0	347089		
	806	male		0	0	347063		
	807		39.00	0	0	112050		A36
		female		0	0	347087		AJO
	809		39.00	0	0	248723		
		female		1	0	113806	53.1000	E8
	811		26.00	0	0	3474		Eo
		male		0	0	A/4 48871		
	813		35.00	0	0	28206		
		female		4	2	347082		
	815		30.50	4 0	0			
	816	male	NA	0	0	364499 112058		B102
##	010	шате	IVA	Ð	v	112058	0.0000	D107

##	817	female	23.00	0	0	STON/02. 3101290	7.9250	
##	818	male	31.00	1	1	S.C./PARIS 2079	37.0042	
##	819	male	43.00	0	0	C 7075	6.4500	
##	820	male	10.00	3	2	347088	27.9000	
##	821	female	52.00	1	1	12749	93.5000	B69
##	822	male	27.00	0	0	315098	8.6625	
##	823	male	38.00	0	0	19972	0.0000	
##	824	female	27.00	0	1	392096	12.4750	E121
##	825	male	2.00	4	1	3101295	39.6875	
##	826	male	NA	0	0	368323	6.9500	
##	827	male	NA	0	0	1601		
##	828	male	1.00	0	2	S.C./PARIS 2079	37.0042	
##	829	male	NA	0	0	367228	7.7500	
		female	62.00	0	0	113572		B28
		female		1	0	2659	14.4542	
	832	male		1	1	29106	18.7500	
	833	male	NA	0	0	2671	7.2292	
	834	male	23.00	0	0		7.8542	
	835		18.00	0	0	2223	8.3000	
		female		1	1	PC 17756		E49
	837		21.00	0	0	315097		
	838	male	NA	0	0	392092	8.0500	
	839		32.00	0	0	1601		
	840	male		0	0	11774		C47
	841		20.00	0	0	SOTON/02 3101287		•
	842		16.00	0	0	S.O./P.P. 3		
		female		0	0	113798		
	844		34.50	0	0	2683	6.4375	
	845		17.00	0	0	315090		
	846		42.00	0	0	C.A. 5547		
	847	male		8	2	CA. 2343	69.5500	
	848		35.00	0	0	349213	7.8958	
		male		0	1		33.0000	
		female		1	0		89.1042	C92
	851		4.00	4	2	347082		CJZ
		male		0	0	347060		
		female		1	1	2678		
		female		0	1	PC 17592		D28
		female		1	0		26.0000	D20
		female		0	1		9.3500	
		female		1	1		164.8667	
	858		51.00	0	0	113055		E17
		female		0	3	2666		LI7
	860	male		0	0	2629		
		male		2	0		14.1083	
		male		1	0	28134		
		female		0	0		25.9292	D17
		female		8				DI7
				0	2 0	CA. 2343		
		male female		0	0	233866		
		female		1	0	SC/PARIS 2149	13.0000 13.8583	
##	007	ı emate	27.00	1	ь	3C/FAR13 2149	13.0303	

##	868	male	31.00	0	0	PC 17590	50.4958	A24
##	869	male	NA	0	0	345777	9.5000	
##	870	male	4.00	1	1	347742	11.1333	
##	871	male	26.00	0	0	349248	7.8958	
##	872	female	47.00	1	1	11751	52.5542	D35
##	873	male	33.00	0	0	695	5.0000	B51 B53 B55
##	874	male	47.00	0	0	345765	9.0000	
##	875	female	28.00	1	0	P/PP 3381	24.0000	
##	876	female	15.00	0	0	2667	7.2250	
##	877	male	20.00	0	0	7534	9.8458	
##	878	male	19.00	0	0	349212	7.8958	
##	879	male	NA	0	0	349217	7.8958	
##	880	female	56.00	0	1	11767	83.1583	C50
		female		0	1	230433	26.0000	
##	882	male	33.00	0	0	349257	7.8958	
##	883	female		0	0	7552	10.5167	
	884		28.00	0	0	C.A./SOTON 34068	10.5000	
	885			0	0	SOTON/OQ 392076	7.0500	
		female		0	5	382652	29.1250	
	887		27.00	0	0	211536	13.0000	
		female		0	0	112053	30.0000	B42
		female		1	2	W./C. 6607		
	890			0	0	111369	30.0000	C148
	891			0	0	370376		
##		Embarke			_			
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##	694	С
##	695	S S S Q
##	696	S
##	697	S
##	698	Q
##	699	С
##	700	S
##	701	S C
##	702	S
##	703	С
##	704	Q
##	705	
##	706	S S S S
##	707	S
##	708	S
##	709	S
##	710	C
##	711	C
##	712	S
##	713	5
##	714	S S S
##	715	5
##	716	5
##	717	S C
##	717	
##	719	0
##	720	S Q S
##	721	S
##	722	S
##	723	
##	724	5
##	725	
##	726	C
##	727	C
##	728	S S S S Q
##	729	ç
		ے د
##	730	S C
##	731	5
##	732	C
##	733	S S S S S S
##	734	2
##	735	5
##	736	5
##	737	S
##	738	C
##	739	S
##	740	S

## 741	S
## 742	S C
## 743	C
## 744	S S S S S Q
## 745	S
## 746	S
## 747	S
## 748	S
## 749	S
## 750	Q
## 751	S
## 752	S
## 753	S S S S S S S
## 754	S
## 755	S
## 756	S
## 757	S
## 758	S
## 759	S
## 760	S
## 761	S
## 762	S S C
## 763	C
## 764	S
## 765	S
## 766	S S S C
## 767	
## 768	Q
## 769	Q
## 770	S S
## 771	S
## 772	S
## 773	S
## 774	C
## 775	S S
## 776	S
## 777	Q
## 778	S
## 779	Q
## 780	S C
## 781	
## 782	S
## 783	S
## 784	S S S S S Q
## 785	S
## 786	S
## 787	S
## 788	Q
## 789	S C
## 790	
## 791	Q

##	792	S
##	793	S
##	794	C
##	795	S
##	796	S
##	797	S
##	798	S
##	799	C
##	800	S
##	801	S
##	802	S
##	803	S
##	804	C
##	805	S
##	806	S S S
##	807	S
##	808	S
##	809	S
##	810	S
##	811	S
##	812	S
##	813	S S
##	814	S
##	815	S
##	816	S
##	817	S
##	818	C
##	819	
##	820	S
##	821	S S S
##	822	S
##	823	S
##	824	S
##	825	S
##	826	Q
##	827	S Q S C
##	828	C
##	829	Q
##	830	
##	831	C
##	832	S
##	833	С
##	834	S
##	835	S
##	836	С
##	837	S
##	838	S S
##	839	S
##	840	С
##	841	S
##	842	S

## 844 C ## 844 C ## 845 S ## 846 S ## 847 S ## 848 C ## 849 S ## 850 C ## 851 S ## 852 S ## 853 C ## 855 S ## 856 S ## 856 S ## 857 S ## 858 S ## 859 C ## 860 C ## 861 S ## 862 S ## 863 S ## 862 S ## 863 S ## 864 S ## 865 S ## 866 S ## 867 C ## 866 S ## 867 C ## 868 S ## 870 S ## 871 S ## 874 S ## 874 S ## 874 S ## 875 C ## 877 S ## 878 S ## 879 S ## 874 S ## 877 S ## 878 S ## 879 S ## 880 C ## 881 S ## 882 S ## 885 S ## 886 Q ## 887 S ## 888 S ## 889 C ##				
## 845	##	843		
## 846	##	844		
## 847	##	845	S	•
## 848	##	846	S	•
## 849 S ## 850 C ## 851 S ## 852 S ## 853 C ## 854 S ## 855 S ## 856 S ## 857 S ## 858 S ## 860 C ## 861 S ## 862 S ## 862 S ## 863 S ## 864 S ## 865 S ## 865 S ## 866 S ## 867 C ## 867 C ## 868 S ## 869 S ## 870 S ## 870 S ## 870 S ## 871 S ## 872 S ## 872 S ## 873 S ## 874 S ## 874 S ## 875 C ## 877 S ## 878 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	##	847		
## 850 C ## 851 S ## 852 S ## 853 C ## 854 S ## 855 S ## 856 S ## 857 S ## 858 S ## 859 C ## 860 C ## 861 S ## 862 S ## 862 S ## 863 S ## 864 S ## 865 S ## 866 S ## 867 C ## 868 S ## 870 S ## 870 S ## 870 S ## 870 S ## 871 S ## 872 S ## 873 S ## 874 S ## 875 C ## 877 S ## 878 S ## 878 S ## 879 S ## 878 S ## 879 S ## 878 S ## 879 S ## 880 C ## 881 S ## 882 S ## 883 S ## 884 S ## 885 S ## 886 Q ## 887 S ## 888 S ## 888 S ## 888 S ## 888 S ## 889 S ## 889 S	##	848		
## 851	##	849		
## 852	##	850		
## 853 C ## 854 S ## 855 S ## 856 S ## 857 S ## 858 S ## 859 C ## 860 C ## 861 S ## 862 S ## 863 S ## 864 S ## 865 S ## 866 S ## 866 S ## 867 C ## 868 S ## 870 S ## 871 S ## 870 S ## 871 S ## 871 S ## 872 S ## 873 S ## 874 S ## 875 C ## 875 C ## 877 S ## 878 S ## 878 S ## 879 S ## 880 C ## 881 S ## 882 S ## 883 S ## 884 S ## 885 S ## 886 Q ## 887 S ## 888 S ## 888 S ## 888 S ## 888 S ## 889 S ## 889 S ## 889 S	##			
## 854 S ## 855 S ## 856 S ## 857 S ## 858 S ## 859 C ## 860 C ## 861 S ## 862 S ## 863 S ## 864 S ## 865 S ## 866 S ## 866 S ## 867 C ## 868 S ## 869 S ## 870 S ## 871 S ## 870 S ## 871 S ## 872 S ## 873 S ## 874 S ## 875 C ## 875 C ## 877 S ## 878 S ## 878 S ## 879 S ## 879 S ## 880 C ## 881 S ## 882 S ## 882 S ## 883 S ## 884 S ## 885 S ## 886 Q ## 887 S ## 888 S ## 888 S ## 888 S ## 888 S ## 889 S ## 889 S	##	852		
## 855 S ## 856 S ## 857 S ## 858 S ## 859 C ## 860 C ## 861 S ## 862 S ## 863 S ## 864 S ## 866 S ## 866 S ## 867 C ## 868 S ## 870 S ## 870 S ## 870 S ## 871 S ## 872 S ## 873 S ## 874 S ## 874 S ## 875 C ## 875 C ## 877 S ## 878 S ## 878 S ## 879 S ## 879 S ## 879 S ## 880 C ## 881 S ## 882 S ## 883 S ## 884 S ## 885 S ## 886 Q ## 887 S ## 888 S ## 888 S ## 888 S ## 888 S ## 889 S ## 889 S ## 889 S	##	853		
## 856 S ## 857 S ## 858 S ## 859 C ## 860 C ## 861 S ## 862 S ## 863 S ## 865 S ## 866 S ## 866 S ## 867 C ## 868 S ## 870 S ## 870 S ## 871 S ## 871 S ## 872 S ## 873 S ## 874 S ## 875 C ## 875 C ## 877 S ## 878 S ## 878 S ## 879 S ## 879 S ## 880 C ## 881 S ## 882 S ## 883 S ## 884 S ## 885 S ## 885 S ## 886 Q ## 887 S ## 888 S ## 888 S ## 888 S ## 889 C	##	854		
## 858	##	855	S	•
## 858	##	856	S	•
## 859 C ## 860 C ## 861 S ## 862 S ## 863 S ## 864 S ## 865 S ## 866 S ## 867 C ## 868 S ## 870 S ## 870 S ## 871 S ## 872 S ## 872 S ## 873 S ## 874 S ## 875 C ## 875 C ## 877 S ## 878 S ## 878 S ## 879 S ## 880 C ## 881 S ## 882 S ## 882 S ## 883 S ## 884 S ## 885 S ## 885 S ## 886 Q ## 887 S ## 888 S ## 888 S ## 889 C	##	857	S	•
## 860 C ## 861 S ## 862 S ## 863 S ## 864 S ## 865 S ## 866 S ## 866 S ## 867 C ## 868 S ## 870 S ## 871 S ## 872 S ## 872 S ## 873 S ## 874 S ## 875 C ## 875 C ## 876 C ## 877 S ## 878 S ## 878 S ## 879 S ## 880 C ## 881 S ## 882 S ## 882 S ## 883 S ## 884 S ## 885 S ## 885 S ## 886 Q ## 887 S ## 888 S ## 888 S ## 889 S ## 889 C	##	858		
## 861 S ## 862 S ## 863 S ## 864 S ## 865 S ## 866 S ## 867 C ## 868 S ## 869 S ## 870 S ## 871 S ## 872 S ## 873 S ## 874 S ## 875 C ## 876 C ## 877 S ## 878 S ## 879 S ## 879 S ## 880 C ## 881 S ## 882 S ## 884 S ## 885 S ## 884 S ## 885 S ## 886 Q ## 887 S ## 888 S ## 888 S ## 889 S ## 889 C	##	859	C	
## 862 S ## 863 S ## 864 S ## 865 S ## 866 S ## 866 S ## 868 S ## 869 S ## 870 S ## 871 S ## 872 S ## 873 S ## 874 S ## 875 C ## 875 C ## 876 C ## 877 S ## 878 S ## 879 S ## 889 C ## 881 S ## 882 S ## 883 S ## 884 S ## 885 S ## 886 Q ## 887 S ## 888 S ## 888 S ## 889 S ## 889 C	##	860		
## 863	##	861	S	•
## 864 S ## 865 S ## 866 S ## 867 C ## 868 S ## 869 S ## 870 S ## 871 S ## 872 S ## 873 S ## 874 S ## 875 C ## 876 C ## 877 S ## 878 S ## 879 S ## 880 C ## 881 S ## 882 S ## 883 S ## 884 S ## 884 S ## 885 S ## 886 Q ## 887 S ## 888 S ## 888 S ## 889 S ## 889 C	##	862	S	•
## 864 S ## 865 S ## 866 S ## 867 C ## 868 S ## 869 S ## 870 S ## 871 S ## 872 S ## 873 S ## 874 S ## 875 C ## 876 C ## 877 S ## 878 S ## 879 S ## 880 C ## 881 S ## 882 S ## 883 S ## 884 S ## 884 S ## 885 S ## 886 Q ## 887 S ## 888 S ## 888 S ## 889 S ## 889 C	##	863	S	•
## 866 S ## 867 C ## 868 S ## 869 S ## 870 S ## 871 S ## 872 S ## 873 S ## 874 S ## 875 C ## 876 C ## 877 S ## 878 S ## 889 C ## 881 S ## 882 S ## 883 S ## 884 S ## 885 S ## 886 Q ## 887 S ## 888 S ## 888 S ## 889 C	##	864	S	,
## 867 C ## 868 S ## 869 S ## 870 S ## 871 S ## 872 S ## 873 S ## 874 S ## 875 C ## 876 C ## 877 S ## 878 S ## 887 S ## 888 S ## 888 S ## 888 S ## 889 C	##	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 ## 888 S ## 889 S ## 889 C	##	866	S	•
## 869 S ## 870 S ## 871 S ## 872 S ## 873 S ## 874 S ## 875 C ## 876 C ## 877 S ## 878 S ## 889 C ## 881 S ## 882 S ## 883 S ## 884 S ## 885 S ## 886 Q ## 887 S ## 888 S ## 889 S ## 889 C	##	867	C	:
## 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 C	##	868	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 C	##	869	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 C	##	870	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 C	##	871	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 C	##	872	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 C	##	873	S	•
## 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 C	##	874	S	•
## 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	##	875	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	##	876	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	##	877	S	•
## 880 C ## 881 S ## 882 S ## 883 S ## 884 S ## 885 S ## 886 Q ## 887 S ## 888 S ## 889 S ## 889 C	##	878	S	•
## 880 C ## 881 S ## 882 S ## 883 S ## 884 S ## 885 S ## 886 Q ## 887 S ## 888 S ## 889 S ## 889 C	##	879	S	•
## 887 S ## 888 S ## 889 S ## 890 C	##	880	C	:
## 887 S ## 888 S ## 889 S ## 890 C	##	881	S	•
## 887 S ## 888 S ## 889 S ## 890 C	##	882	S	•
## 887 S ## 888 S ## 889 S ## 890 C	##	883	S	•
## 887 S ## 888 S ## 889 S ## 890 C	##	884	S	•
## 887 S ## 888 S ## 889 S ## 890 C	##	885	S	•
## 887 S ## 888 S ## 889 S ## 890 C	##	886		
## 888 S ## 889 S ## 890 C	##	887	<	
## 889 S ## 890 C	##	888	5	
## 890 C	##	889	S	,
## 891 Q	##	890	C	:
	##	891	Ç	<u>)</u>

summary(titanic_df)

```
PassengerId
                     Survived
##
                                      Pclass
                                                      Name
   Min. : 1.0
                        :0.0000
##
                  Min.
                                  Min.
                                         :1.000
                                                  Length:891
##
   1st Qu.:223.5
                  1st Qu.:0.0000
                                  1st Qu.:2.000
                                                  Class :character
   Median :446.0
                  Median :0.0000
                                  Median :3.000
                                                  Mode :character
##
         :446.0
##
   Mean
                  Mean
                        :0.3838
                                  Mean
                                         :2.309
                                  3rd Qu.:3.000
   3rd Qu.:668.5
                  3rd Qu.:1.0000
##
   Max. :891.0
                  Max. :1.0000
                                  Max. :3.000
##
##
##
       Sex
                                       SibSp
                                                       Parch
                          Age
##
   Length:891
                     Min. : 0.42
                                    Min. :0.000
                                                   Min.
                                                          :0.0000
##
   Class :character
                     1st Qu.:20.12
                                    1st Qu.:0.000
                                                    1st Qu.:0.0000
   Mode :character
                                                   Median :0.0000
##
                     Median :28.00
                                    Median :0.000
##
                     Mean :29.70
                                    Mean :0.523
                                                   Mean
                                                          :0.3816
##
                     3rd Qu.:38.00
                                    3rd Qu.:1.000
                                                    3rd Qu.:0.0000
##
                     Max. :80.00
                                    Max. :8.000
                                                   Max. :6.0000
##
                     NA's :177
##
      Ticket
                          Fare
                                        Cabin
                                                         Embarked
                     Min. : 0.00 Length:891
##
   Length:891
                                                      Length:891
   Class :character
                     1st Qu.: 7.91 Class :character Class :character
##
##
   Mode :character
                     Median : 14.45
                                     Mode :character Mode :character
                     Mean : 32.20
##
##
                     3rd Qu.: 31.00
##
                     Max. :512.33
##
```

head(titanic_df)

```
##
     PassengerId Survived Pclass
## 1
               1
                                3
               2
                         1
                                1
## 2
               3
                         1
## 3
               4
## 4
                         1
                                1
## 5
               5
                                3
                                3
## 6
               6
##
                                                      Name
                                                               Sex Age SibSp Parch
## 1
                                  Braund, Mr. Owen Harris
                                                              male
                                                                    22
## 2 Cumings, Mrs. John Bradley (Florence Briggs Thayer) female
                                                                                  0
## 3
                                   Heikkinen, Miss. Laina female
                                                                                 0
## 4
            Futrelle, Mrs. Jacques Heath (Lily May Peel) female
                                                                    35
                                                                                 0
                                                                           1
                                 Allen, Mr. William Henry
                                                                                 0
## 5
                                                              male
                                                                    35
## 6
                                         Moran, Mr. James
                                                              male NA
                                                                                  0
##
               Ticket
                          Fare Cabin Embarked
            A/5 21171 7.2500
## 1
             PC 17599 71.2833
                                 C85
                                             C
## 2
                                             S
## 3 STON/02. 3101282 7.9250
## 4
               113803 53.1000 C123
                                             S
                                             S
## 5
               373450 8.0500
## 6
               330877 8.4583
                                             Q
```

tail(titanic_df)

```
PassengerId Survived Pclass
##
                                                                           Name
                                                                                    Sex
                                         Rice, Mrs. William (Margaret Norton) female
## 886
               886
## 887
               887
                                  2
                                                         Montvila, Rev. Juozas
## 888
               888
                           1
                                                 Graham, Miss. Margaret Edith female
                                  1
               889
                           0
                                  3 Johnston, Miss. Catherine Helen "Carrie" female
## 889
## 890
               890
                           1
                                   1
                                                         Behr, Mr. Karl Howell
               891
## 891
                           0
                                  3
                                                           Dooley, Mr. Patrick
                                                                                  male
       Age SibSp Parch
                            Ticket
##
                                      Fare Cabin Embarked
                            382652 29.125
## 886
        39
                      5
## 887
        27
                      0
                            211536 13.000
                                                         S
## 888
        19
               0
                      0
                            112053 30.000
                                                         S
                                             B42
                                                         S
               1
                      2 W./C. 6607 23.450
## 889
        NA
                      0
                                                         C
## 890
        26
               0
                            111369 30.000
                                            C148
## 891
        32
                            370376 7.750
                                                         Q
```

#2. Data Preparation and data cleaning of titanic dataset
str(titanic_df)

```
891 obs. of 12 variables:
## 'data.frame':
## $ PassengerId: int 1 2 3 4 5 6 7 8 9 10 ...
## $ Survived : int 0 1 1 1 0 0 0 0 1 1 ...
## $ Pclass
               : int 3 1 3 1 3 3 1 3 3 2 ...
              : chr "Braund, Mr. Owen Harris" "Cumings, Mrs. John Bradley (Florence Brigg
## $ Name
s Thayer)" "Heikkinen, Miss. Laina" "Futrelle, Mrs. Jacques Heath (Lily May Peel)" ...
              : chr "male" "female" "female" "female" ...
  $ Sex
               : num 22 38 26 35 35 NA 54 2 27 14 ...
## $ Age
## $ SibSp
              : int 1101000301...
## $ Parch
              : int 0000000120 ...
              : chr "A/5 21171" "PC 17599" "STON/02. 3101282" "113803" ...
## $ Ticket
## $ Fare
               : num 7.25 71.28 7.92 53.1 8.05 ...
             : chr "" "C85" "" "C123" ...
## $ Cabin
  $ Embarked : chr "S" "C" "S" "S" ...
##
```

```
sum(is.na(titanic_df))
```

```
## [1] 177
```

```
cat_table<-table(titanic_df$Age,titanic_df$Survived)
cat_table</pre>
```

```
##
##
            0
               1
##
     0.42
            0
               1
##
     0.67
            0
               1
     0.75
               2
##
            0
##
     0.83
            0
               2
               1
##
     0.92
            0
##
            2
               5
     1
     2
            7
               3
##
               5
##
     3
            1
               7
            3
##
     4
##
     5
            0
               4
##
     6
            1
               2
     7
            2
               1
##
            2
               2
##
     8
     9
               2
##
            6
##
     10
            2
               0
     11
            3
               1
##
##
     12
            0
               1
##
     13
            0
               2
     14
            3
               3
##
     14.5
            1
               0
##
##
     15
            1
               4
##
     16
           11
               6
            7
               6
##
     17
           17
               9
##
     18
##
     19
           16
               9
     20
           12
               3
##
               0
##
     20.5 1
           19
               5
##
     21
##
     22
           16 11
           10
               5
##
     23
               0
##
     23.5 1
##
     24
           15 15
##
     24.5 1
               0
##
     25
           17
               6
           12 6
##
     26
##
     27
            7 11
##
           18
               7
     28
     28.5 2
               0
##
##
     29
           12 8
##
     30
           15 10
     30.5 2
##
               0
     31
            9
               8
##
##
     32
            9
               9
               1
##
     32.5 1
##
     33
            9
               6
##
     34
            9
               6
     34.5 1 0
##
            7 11
##
     35
           11 11
##
     36
```

```
##
     36.5 1 0
##
     37
           5
              1
##
     38
           6
              5
##
     39
           9
              5
           7
##
     40
              6
           2
              0
##
     40.5
              2
           4
##
     41
##
     42
           7
              6
##
     43
           4
              1
##
     44
           6
              3
           7
              5
##
     45
     45.5
           2
              0
##
##
     46
           3
              0
##
     47
           8
              1
##
     48
           3
              6
           2
              4
##
     49
           5
              5
##
     50
           5
              2
##
     51
##
     52
           3
              3
##
     53
           0
              1
     54
           5
              3
##
           1
              1
##
     55
     55.5 1
              0
##
           2
              2
##
     56
           2
              0
##
     57
##
     58
           2
              3
     59
           2
              0
##
              2
           2
##
     60
           3
##
     61
              0
##
     62
           2
              2
##
     63
           0
              2
           2
##
     64
              0
##
     65
           3
              0
##
     66
           1
              0
     70
           2
              0
##
           1
              0
##
     70.5
##
     71
           2
              0
##
     74
           1
              0
           0
              1
##
     80
```

```
num_table<-table(titanic_df$Age,titanic_df$Parch)
num_table</pre>
```

##								
##		0	1	2	3	4	5	6
##	0.42	0	1	0	0	0	0	0
##	0.67	0	1	0	0	0	0	0
##	0.75	0	2	0	0	0	0	0
##	0.83	0	1	1	0	0	0	0
##	0.92	0	0	1	0	0	0	0
##	1	0	3	4	0	0	0	0
##	2	0	7	3	0	0	0	0
##	3	0	4	2	0	0	0	0
##	4	0	6	4	0	0	0	0
##	5	1	1	2	0	0	0	0
##	6	0	2	1	0	0	0	0
##	7	0	2	1	0	0	0	0
##	8	0	3	1	0	0	0	0
##	9	0	2	6	0	0	0	0
##	10	0	0	2	0	0	0	0
##	11	1	0	3	0	0	0	0
##	12	1	0	0	0	0	0	0
##	13	1	1	0	0	0	0	0
##	14	3	1	2	0	0	0	0
##	14.5	1	0	0	0	0	0	0
##	15	3	2	0	0	0	0	0
##	16	11	4	1	1	0	0	0
##	17	10	1	2	0	0	0	0
##	18	18	5	3	0	0	0	0
##	19	22	1	2	0	0	0	0
##	20	14	1	0	0	0	0	0
##	20.5	1	0	0	0	0	0	0
##	21	21	1	2	0	0	0	0
##	22	23	2	2	0	0	0	0
##	23	12	2	1	0	0	0	0
##	23.5	1	0	0	0	0	0	0
##	24	22	2	4	2	0	0	0
##	24.5	1	0	0	0	0	0	0
##	25	19	2	2	0	0	0	0
##	26	16	1	1	0	0	0	0
##	27	15	1	2	0	0	0	0
##	28	23	2	0	0	0	0	0
##	28.5	2	0	0	0	0	0	0
##	29	17	1	1	0	1	0	0
##	30	24	1	0	0	0	0	0
##	30.5	2	0	0	0	0	0	0
##	31	12	4	1	0	0	0	0
##	32	17	1	0	0	0	0	0
##	32.5	2	0	0	0	0	0	0
##	33	12	1	2	0	0	0	0
##	33 34	12	3	0	0	0	0	0
##	34.5	1						
##	34.5	1 17	0 1	0 0	0	0	0 a	0 a
##	35 36			4	0	0	0 a	0
##	20	16	2	4	0	0	0	0

```
##
      36.5
             0
                 0
                    1
                        0
                            0
                                0
                                    0
                                    0
##
      37
             4
                 2
                     0
                        0
                            0
                                0
##
      38
             9
                 1
                     0
                        0
                            0
                                1
                                    0
      39
             8
                    0
                        0
                            0
                                3
##
                 3
                                    0
             9
                 3
                                    0
##
      40
                     0
                        0
                                0
                            1
##
      40.5
             1
                 0
                     1
                        0
                            0
                                0
                                    0
##
      41
             3
                 1
                    1
                        0
                            0
                                1
                                    0
                        0
##
      42
            12
                 1
                     0
                            0
                                0
                                    0
                 2
                     0
##
      43
             2
                        0
                            0
                                0
                                    1
##
             7
                 2
                     0
                        0
                            0
                                0
                                    0
      44
##
      45
             8
                 3
                     0
                        0
                            1
                                    0
                                0
##
      45.5
             2
                 0
                    0
                        0
                            0
                                0
                                    0
##
      46
             3
                 0
                     0
                        0
                            0
                                0
                                    0
##
      47
             8
                 1
                     0
                        0
                            0
                                0
##
             7
                 0
                    1
                            0
                                    0
      48
                        1
                                0
##
      49
             5
                 1
                    0
                        0
                            0
                                0
                                    0
##
      50
             8
                 2
                     0
                        0
                            0
                                0
                                    0
##
      51
             6
                 1
                     0
                        0
                            0
                                0
                                    0
     52
                 2
##
             4
                    0
                        0
                            0
                                0
                                    0
                     0
##
      53
             1
                 0
                        0
                            0
                                0
                                    0
##
      54
             6
                 1
                     0
                        1
                            0
                                0
                                    0
##
      55
             2
                 0
                     0
                        0
                            0
                                0
                                    0
##
      55.5
             1
                 0
                    0
                        0
                            0
                                0
                                    0
##
      56
             3
                 1
                     0
                        0
                            0
                                0
                                    0
             2
                 0
                     0
##
      57
                        0
                            0
                                0
##
      58
             3
                 1
                    1
                        0
                            0
                                0
                                    0
##
      59
             2
                 0
                    0
                        0
                            0
                                0
                                    0
                 2
##
      60
             2
                     0
                        0
                            0
                                0
                                    0
##
      61
             3
                 0
                    0
                        0
                            0
                                0
                                    0
##
      62
             4
                 0
                     0
                        0
                            0
                                0
                                    0
##
      63
             2
                 0
                     0
                        0
                            0
                                0
                                    0
                 0
                     0
                            1
##
      64
             1
                        0
                                0
             2
                     0
                        0
                            0
                                    0
##
      65
                 1
                                0
                 0
                    0
                        0
                            0
                                    0
##
                                0
      66
             1
##
      70
             1
                 1
                     0
                        0
                            0
                                0
                                    0
##
      70.5
             1
                 0
                     0
                        0
                            0
                                0
                                    0
##
                 0
                    0
                        0
                            0
      71
             2
                                0
                                    0
##
      74
             1
                 0
                    0
                        0
                            0
                                0
                                    0
##
      80
             1
                 0
                     0
                        0
                            0
```

```
mix_table<-table(titanic_df$Survived,titanic_df$Parch)
mix_table</pre>
```

```
##
##
          0
               1
                    2
                          3
                              4
                                   5
                                        6
##
      0 445
              53
                   40
                          2
                              4
                                   4
                                        1
                          3
                                        0
##
      1 233
              65
                   40
                              0
                                   1
```

```
titanic_df$Class<-as.factor(titanic_df$SibSp)
titanic_df$Sex<-as.factor(titanic_df$Sex)
titanic_df$Survived<-as.factor(titanic_df$Survived)
titanic_df$Class</pre>
```

```
[1] 1 1 0 1 0 0 0 3 0 1 1 0 0 1 0 0 4 0 1 0 0 0 0 0 3 1 0 3 0 0 0 1 0 0 1 1 0
##
[38] 0 2 1 1 1 0 1 0 0 1 0 2 1 4 0 1 1 0 0 0 0 1 5 0 0 1 3 0 1 0 0 4 2 0 5 0 1
## [112] 1 0 1 0 0 0 1 0 4 2 0 1 0 0 1 0 0 1 0 0 0 1 1 0 0 0 1 0 0 0 1 0 0 1
## [149] 0 0 0 1 0 0 0 0 0 0 0 8 0 0 0 0 4 0 0 1 0 0 0 4 1 0 0 1 3 0 0 0 8 0 4 2 0
## [371] 1 1 0 0 3 1 0 0 0 0 0 0 1 0 0 5 0 0 0 1 0 2 1 0 0 0 0 0 0 0 1 1 0 1 0
## [630] 0 0 0 0 0 3 0 0 1 0 1 0 0 3 0 2 1 0 0 0 0 0 0 0 0 2 0 1 0 0 2 0 0 0 1 2
## [667] 0 0 0 1 1 1 0 0 0 0 0 1 0 0 0 0 5 1 1 4 0 0 0 1 0 0 0 0 0 0 1 0 1 0 0
## [889] 1 0 0
## Levels: 0 1 2 3 4 5 8
```

titanic_df\$Sex

```
##
     [1] male
                female female male
                                            male
                                                   male
                                                          male
                                                                  female female
##
   [11] female female male
                                     female female male
                                                          male
                                                                  female female
                              male
   [21] male
                male
                       female male
                                     female female male
                                                           male
                                                                  female male
##
                female female male
                                     male
                                            male
                                                   male
                                                           male
                                                                  female female
##
   [31] male
##
   [41] female female male
                              female female male
                                                   male
                                                           female male
                                                                         female
                male
                       female female male
##
   [51] male
                                            male
                                                   female male
                                                                  female male
##
   [61] male
                female male
                              male
                                     male
                                            male
                                                   female male
                                                                  female male
##
   [71] male
               female male
                              male
                                     male
                                            male
                                                   male
                                                           male
                                                                  male
                                                                         female
##
   [81] male
                male
                       female male
                                     female female male
                                                                  female male
                                                           male
   [91] male
                male
                       male
                              male
                                     male
                                            male
                                                   male
                                                           male
                                                                  female male
##
## [101] female male
                       male
                              male
                                     male
                                            male
                                                   female male
                                                                  male
                                                                         female
## [111] male
                female male
                              female female male
                                                   male
                                                           male
                                                                  male
                                                                         female
## [121] male
                male
                       male
                              female male
                                                   male
                                                           male
                                                                  female male
                                            male
## [131] male
                male
                       female female male
                                            male
                                                   female male
                                                                  male
                                                                         male
## [141] female female female male
                                     male
                                            male
                                                   male
                                                           female male
                                                                         male
## [151] male
               female male
                                                   female male
                              male
                                     male
                                            male
                                                                  male
                                                                         male
## [161] male
               female male
                                     male
                                            male
                                                   female female male
                              male
                                                                         male
## [171] male
                male
                       female male
                                     male
                                            male
                                                   male
                                                           female male
                                                                         male
## [181] female male
                       male
                              male
                                     female male
                                                   female male
                                                                  male
                                                                         male
                                                                  female female
## [191] female male
                       female male
                                     female female male
                                                          male
## [201] male
                male
                       male
                              male
                                     male
                                            female male
                                                           male
                                                                  female male
## [211] male
                female male
                              male
                                     male
                                            female female male
                                                                  female male
## [221] male
                male
                       male
                              male
                                     male
                                            male
                                                   male
                                                          male
                                                                  male
                                                                         female
## [231] female male
                              female male
                                            female male
                                                           female male
                       male
                                                                         male
## [241] female female male
                                                   female female male
                              male
                                     male
                                            male
                                                                         male
## [251] male
               female male
                                     female female female female female
                              male
## [261] male
                       male
                                     female male
                                                   male
                                                           male
                                                                  female female
               male
                              male
## [271] male
                male
                       female male
                                     female female male
                                                                  male
                                                                         female
## [281] male
                male
                       male
                              male
                                     male
                                            male
                                                   male
                                                           male
                                                                  male
                                                                         female
## [291] female female male
                              female male
                                            male
                                                   male
                                                           female male
                                                                         female
## [301] female male
                       male
                              female male
                                            male
                                                   female female male
                                                                         female
## [311] female female female male
                                     male
                                            female female male
                                                                  female female
## [321] male
                male
                       female female male
                                            female male
                                                           female female female
## [331] female male
                       male
                                     female male
                                                   male
                                                           female male
                              male
                                                                         male
## [341] male
                female male
                              male
                                     male
                                            female female male
                                                                         male
## [351] male
                                                   female female female
                male
                       male
                              male
                                     male
                                            male
## [361] male
                male
                       female male
                                     male
                                            male
                                                   female female female
## [371] male
                male
                       male
                              male
                                     female female male
                                                                  male
                                                                         male
## [381] female female male
                              female male
                                            male
                                                   male
                                                           female male
                                                                         female
## [391] male
                male
                       male
                              female female male
                                                   female male
                                                                  male
                                                                         female
## [401] male
                male
                       female male
                                     female male
                                                   male
                                                           male
                                                                  male
                                                                         female
                                                                         female
## [411] male
                male
                       female male
                                     male
                                            female female male
## [421] male
                male
                       male
                              female male
                                            male
                                                   female female male
                                                                         male
## [431] male
                female female male
                                     male
                                            female female male
                                                                         male
## [441] female male
                       male
                              female male
                                            male
                                                   female male
                                                                  female male
                                                          female female male
## [451] male
                male
                       male
                              male
                                     male
                                            male
                                                   male
## [461] male
                male
                       male
                              male
                                     male
                                            male
                                                   male
                                                          male
                                                                  male
                                                                         female
## [471] male
                       female female male
                male
                                                   male
                                                          male
                                                                  male
                                                                         female
                       male
## [481] male
                male
                              female male
                                            female female male
                                                                  male
                                                                         male
## [491] male
                male
                       male
                              male
                                     male
                                            male
                                                   female male
                                                                  female male
## [501] male
                female female female male
                                                   female male
                                                                  male
                                                                         male
```

```
## [511] male
              male
                     male
                           female male
                                        male
                                               female male
                                                            female male
## [521] female male
                     male
                           female male
                                        male
                                               female male
                                                            male
                                                                   male
## [531] female male
                     male
                           female female male
                                                     female male
                                                                   female
## [541] female female female male
                                        male
                                               female male
                                                            male
                                                                   male
## [551] male
              male
                     male
                           male female male
                                               female male
                                                            female female
## [561] male
              male
                     male
                           male
                                  female male
                                               male
                                                     female male
                                                                   male
## [571] male female male
                           female male
                                        male
                                               female female male
## [581] female female male
                           male
                                  male
                                        female male
                                                     male
                                                            male
                                                                   male
## [591] male female male
                           female male
                                        male
                                               female male
                                                            male
                                                                   male
## [601] female male
                                       male
                                               male
                                                     male female female
                     male
                           male
                                  male
## [611] female male
                                        female male
                                                     female female male
                     female male
                                  male
## [621] male
              male
                     male
                           male male male
                                               male female male
                                                                   male
                                  female female male
## [631] male male
                     male
                           male
                                                     male
                                                            female male
## [641] male female female male
                                  female male
                                               male
                                                     male
                                                            male
                                                                   female
## [651] male female male
                           female female male
                                                     female male
                                               male
                                                                   male
## [661] male male
                     male
                           male
                                  male
                                        male
                                               male
                                                     male
                                                            male
                                                                   female
## [671] female male
                     male
                                  male
                                        male
                                               male female female male
                           male
## [681] female male
                     male
                           male
                                  male
                                        male
                                               male male
                                                            male
                                                                   female
                                  male
## [691] male female male
                                               male
                                                     female male
                                                                   male
                           male
                                        male
## [701] female male
                     female male
                                               female male
                                                            female male
                                  male
                                        male
## [711] female male
                     male
                           male
                                  male
                                        male
                                               female female male
                                                                   male
## [721] female male
                                  male
                                               female female male
                                                                   female
                     male
                           male
                                        male
## [731] female male
                     male
                                               female male male
                                                                   male
                           male
                                  male
                                        male
## [741] male
              male
                     female male
                                  male
                                        male
                                               male female male
                                                                   male
## [751] female male
                     male
                           male
                                  female male
                                               male male
                                                            male
                                                                   female
## [761] male male
                     male
                           female male
                                        female male female male
                                                                   male
                                               male female male
## [771] male
              male
                     female male
                                  female male
                                                                   female
## [781] female female male
                           male
                                  male
                                        male
                                               female male
                                                            male
                                                                   male
## [791] male male
                                               female female male
                                                                   female
                     female male
                                  male
                                        male
## [801] male female male
                           male
                                  male
                                        male
                                               male
                                                     female male
                                                                   female
## [811] male
              male
                     male female male
                                        male
                                               female male
                                                            male
                                                                   male
## [821] female male
                     male female male
                                                                   female
                                        male
                                               male
                                                     male
                                                            male
## [831] female male
                     male
                                  male female male
                           male
                                                     male
                                                            male
                                                                   male
## [841] male
                     female male
                                  male
                                        male
                                                                   female
              male
                                               male
                                                     male
                                                            male
                     female female female female male female male
## [851] male
              male
                     female female male female male male
## [861] male
              male
                                                                   male
              female male
                           male female female male
                                                            male
## [871] male
                                                                   female
## [881] female male
                     female male
                                  male female male female female male
## [891] male
## Levels: female male
```

titanic_df\$Survived

```
##
   ##
 ## [112] 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 1 1 1 0 0 0 0 1 0 0 1 0 0 0 1 1 0 0 0 1 0
## [149] 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 1 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 1
## [223] 0 0 1 0 1 0 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 0 1 1 0 0 0 0 0 1 1 1 1
## [297] 0 0 1 1 1 1 0 1 0 1 1 1 1 0 1 1 1 0 0 0 1 1 0 1 1 0 0 1 1 0 1 1 1 1 0 0
## [334] 0 1 0 0 1 1 0 1 1 0 0 0 1 1 1 1 1 0 0 0 0 0 0 0 1 0 1 1 1 0 0 0 0 0 1 1 1 1
## [371] 1 0 0 0 0 1 1 0 0 0 1 1 0 1 0 0 0 1 1 1 1 0 1 1 0 0 0 0 1 1 0 0 0 0 0
## [408] 1 0 0 0 0 1 0 1 0 1 1 0 0 0 0 0 0 0 1 1 0 1 1 1 1 0 0 1 0 1 0 0 1
## [445] 1 1 1 1 1 1 0 0 0 1 0 1 0 1 1 0 1 0 0 0 0 0 0 0 0 1 0 0 1 1 0 0 0 0 1 0
## [482] 0 0 1 1 0 1 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 1 1 0 1 1 0 1 1 0 0 1 0
## [593] 0 0 0 0 1 0 0 1 1 0 0 0 1 0 0 1 1 1 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 1 0 0 0 1 0
## [630] 0 1 0 1 0 0 1 0 0 0 0 0 1 0 1 1 1 0 1 0 1 0 1 0 1 0 0 0 0 0 1 0 0 0 1 0
## [741] 1 0 1 0 1 0 0 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 0 1 0 0 1 1 0 1 0 0 0 0 0 0 0 0 0 1 0 0
## [778] 1 0 1 1 1 0 0 0 0 1 0 1 0 0 0 0 0 0 1 1 0 0 0 0 1 1 1 1 1 0 0 0 0 1 0 0 0 0
## [852] 0 0 1 0 1 1 1 1 1 0 0 0 1 0 0 1 1 0 0 1 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 0 0 0 0 1
## [889] 0 1 0
## Levels: 0 1
```

```
#3. Create a 2 way contingency table - all the possibility of Categorical-Categorical, numerical-numerical, Categorical-numerical variables. (table())
cat_cat_table<-table(titanic_df$Survived,titanic_df$Sex)
cat_cat_table
```

```
##
## female male
## 0 81 468
## 1 233 109
```

```
summary(titanic_df$Parch)
```

```
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 0.0000 0.0000 0.0000 0.3816 0.0000 6.0000
```

#4. Create a 3 way contingency table for the Q3.
way_table<-table(titanic_df\$Survived,titanic_df\$Sex,titanic_df\$Age)
way_table</pre>

```
## , , = 0.42
##
##
##
   female male
   0 0
##
   1 0
##
##
## , , = 0.67
##
##
##
    female male
   0 0
##
##
   1 0
             1
##
## , , = 0.75
##
##
##
   female male
   0 0
##
##
   1
       2
##
## , , = 0.83
##
##
##
    female male
   0 0
##
##
   1 0
##
## , , = 0.92
##
##
##
    female male
   0 0 0
##
##
   1 0 1
##
## , , = 1
##
##
   female male
##
   0 0 2
##
   1 2 3
##
##
## , , = 2
##
##
##
    female male
   0 4
##
##
   1 2
             1
##
## , , = 3
##
```

```
##
##
     female male
      1
##
##
    1
      1
##
## , , = 4
##
##
##
    female male
    0 0
##
    1 5
##
##
## , , = 5
##
##
##
    female male
    0 0
##
    1 4
##
##
## , , = 6
##
##
##
    female male
    0 1
##
    1 1
##
##
## , , = 7
##
##
##
    female male
##
    0 0
              2
        1
              0
##
    1
##
## , , = 8
##
##
##
     female male
    0 1 1
##
        1
           1
##
    1
##
## , , = 9
##
##
##
    female male
    0 4
##
              2
    1 0
              2
##
##
## , , = 10
##
##
##
     female male
```

```
1
##
           1
     0
##
   1
             0
##
## , , = 11
##
##
##
    female male
##
   0 1
##
   1 0
             1
##
## , , = 12
##
##
##
  female male
##
   0 0
   1 0 1
##
##
## , , = 13
##
##
##
    female male
   0 0
##
   1 2
##
##
## , , = 14
##
##
##
    female male
   0 1
##
##
   1 3
##
## , , = 14.5
##
##
##
   female male
##
   1 0
##
##
## , , = 15
##
##
##
   female male
   0 0
##
##
   1
##
## , , = 16
##
##
##
    female male
   0 1 10
##
##
   1 5 1
```

```
##
## , , = 17
##
##
##
    female male
   0 1
##
   1 5 1
##
##
## , , = 18
##
##
##
    female male
   0 5 12
##
   1 8 1
##
##
## , , = 19
##
##
##
    female male
##
   0 0 16
   1 7 2
##
##
## , , = 20
##
##
##
   female male
   0 2 10
##
   1 0 3
##
##
## , , = 20.5
##
##
##
    female male
   0 0
##
             1
##
   1
        0
##
## , , = 21
##
##
    female male
##
   0 3 16
##
   1 4 1
##
##
## , , = 22
##
##
##
    female male
   0 2 14
##
   1 10 1
##
##
## , , = 23
```

```
##
##
##
    female male
   0 1
##
   1 4
##
##
## , , = 23.5
##
##
##
    female male
    0 0
##
   1 0
##
##
## , , = 24
##
##
##
   female male
    0 2 13
##
##
   1 14 1
##
## , , = 24.5
##
##
##
    female male
    0 0
##
##
   1 0
##
## , , = 25
##
##
##
    female male
    0 3 14
##
##
   1 2 4
##
## , , = 26
##
##
##
    female male
   0 2 10
1 3 3
##
##
##
## , , = 27
##
##
##
    female male
    0 1 6
##
   1 5
##
##
## , , = 28
##
##
```

```
##
    female male
##
    0 2
            16
        5
##
##
## , , = 28.5
##
##
##
    female male
##
    0 0
    1 0
             0
##
##
## , , = 29
##
##
##
    female male
##
    0 2 10
    1 5 3
##
##
## , , = 30
##
##
##
    female male
##
    0 2 13
##
    1 9
##
## , , = 30.5
##
##
    female male
##
##
    0 1
    1 0
##
##
## , , = 31
##
##
    female male
##
##
    0 2
             7
        5
             3
##
    1
##
## , , = 32
##
##
##
     female male
    0 1 8
##
    1 2
             7
##
##
## , , = 32.5
##
##
##
    female male
   0 0 1
##
```

```
##
    1 1
            0
##
## , , = 33
##
##
##
    female male
    0 0
##
    1 6
##
##
## , , = 34
##
##
##
     female male
    0 0
##
    1 4
             2
##
##
## , , = 34.5
##
##
##
    female male
   0 0
1 0
##
##
##
## , , = 35
##
##
##
     female male
    0 0
             7
##
    1 8
##
##
## , , = 36
##
##
##
     female male
    0 0 11
##
        7 4
##
##
## , , = 36.5
##
##
##
    female male
    0 0
##
    1 0
##
##
## , , = 37
##
##
##
     female male
##
    0 1
             4
        0
             1
##
    1
##
```

```
## , , = 38
##
##
##
    female male
    0 1
##
##
        4
             1
   1
##
## , , = 39
##
##
##
    female male
##
    0 2
             7
##
    1
        4
##
## , , = 40
##
##
##
    female male
##
   0 1
             6
##
    1 5
##
  , , = 40.5
##
##
##
##
    female male
    0 0
##
##
   1 0
##
## , , = 41
##
##
##
    female male
##
   0 2
   1 2
##
##
## , , = 42
##
##
##
    female male
    0 0
             7
##
##
   1
        3
             3
##
## , , = 43
##
##
##
    female male
    0 1
##
##
   1 1
             0
##
## , , = 44
##
```

```
##
##
     female male
      1
##
        2
##
    1
##
## , , = 45
##
##
##
    female male
    0 3
##
    1 3
##
##
## , , = 45.5
##
##
##
    female male
    0 0
##
      0
##
    1
##
## , , = 46
##
##
##
    female male
##
    0 0
    1 0
##
##
## , , = 47
##
##
##
    female male
##
    0 1
              7
        1
##
    1
##
## , , = 48
##
##
##
     female male
    0 1
##
        3 3
##
    1
##
## , , = 49
##
##
##
    female male
    0 0
##
    1 2
              2
##
##
## , , = 50
##
##
##
     female male
```

```
1
##
             4
##
   1
     4
             1
##
## , , = 51
##
##
##
    female male
##
   0 0
##
   1 1
             1
##
## , , = 52
##
##
##
   female male
##
   0 0
   1 2 1
##
##
## , , = 53
##
##
##
    female male
   0 0
##
   1 1
##
##
## , , = 54
##
##
##
    female male
   0 0 5
##
   1 3 0
##
##
## , , = 55
##
##
##
   female male
##
   1 1
##
##
## , , = 55.5
##
##
##
    female male
   0 0
##
##
   1
##
## , , = 56
##
##
##
    female male
##
   0 0
##
   1 1 1
```

```
##
## , , = 57
##
##
##
    female male
   0 1
##
   1 0
##
##
## , , = 58
##
##
##
    female male
   0 0
##
   1 3
##
##
## , , = 59
##
##
##
    female male
##
   0 0
   1 0
##
##
## , , = 60
##
##
##
    female male
##
   0 0
   1 1 1
##
##
## , , = 61
##
##
##
    female male
   0 0
##
             3
##
   1
       0
##
## , , = 62
##
##
    female male
##
   0 0 2
##
   1
       1
           1
##
##
## , , = 63
##
##
##
    female male
   0 0
##
   1 2
##
##
## , , = 64
```

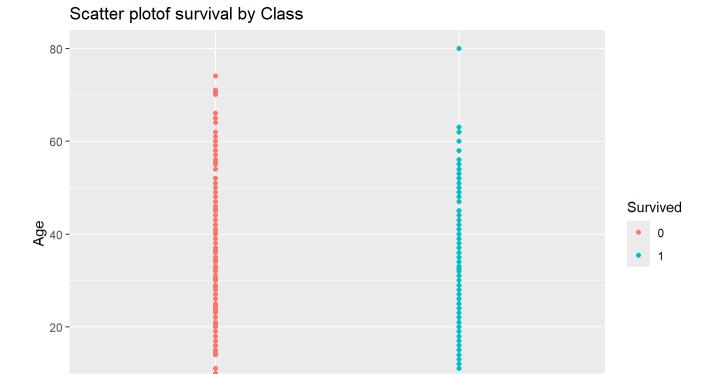
```
##
##
##
    female male
   0 0
##
             2
    1 0
             0
##
##
## , , = 65
##
##
##
    female male
    0 0
##
   1 0
##
             0
##
## , , = 66
##
##
##
    female male
    0 0
##
##
   1 0
             0
##
## , , = 70
##
##
##
    female male
    0 0
##
##
   1 0
##
## , , = 70.5
##
##
##
    female male
    0 0
##
##
   1 0
##
## , , = 71
##
##
##
    female male
    0 0
##
   1 0
##
##
## , , = 74
##
##
##
     female male
    0 0
             1
##
##
   1
##
## , , = 80
##
##
```

```
##
       female male
            0
                  0
##
     0
##
     1
            0
                  1
#5. For Q3 any one contingency table, apply row profile dataset, column profile dataset, rela
tive frequency dataset, Chi-square dataset.
row_profile<-prop.table(cat_cat_table,1)</pre>
row profile
##
##
          female
                       male
     0 0.1475410 0.8524590
##
##
     1 0.6812865 0.3187135
column_profile<-prop.table(cat_cat_table,2)</pre>
column_profile
##
##
          female
                       male
##
     0 0.2579618 0.8110919
     1 0.7420382 0.1889081
##
relative_freq<-prop.table(cat_cat_table)</pre>
relative freq
##
           female
##
                         male
##
     0 0.09090909 0.52525253
##
     1 0.26150393 0.12233446
chisqr<-chisq.test(cat_cat_table)</pre>
chisqr
##
##
    Pearson's Chi-squared test with Yates' continuity correction
##
## data: cat_cat_table
## X-squared = 260.72, df = 1, p-value < 2.2e-16
#6. Display the scatter plot using ggplot.
library(ggplot2)
ggplot(titanic_df,aes(x=Survived,y=Age,color=Survived))+geom_point()+labs(title = "Scatter pl
otof survival by Class",x="Survived",y="Age")
```

0 -

0

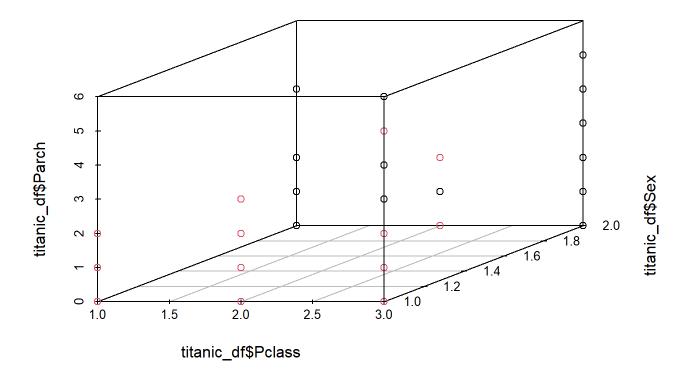
Warning: Removed 177 rows containing missing values or values outside the scale range
(`geom_point()`).



#7. Display the scatter plot for 3 variables using ggplot. (load the library 'scatterplot3d')
library(scatterplot3d)
scatterplot3d(titanic_df\$Pclass,titanic_df\$Sex,titanic_df\$Parch,color = as.numeric((titanic_d
f\$Survived),xlab="class",ylab="Sex",zlab="Frequency",main="Scatterplot3d",pch=16,type="h"))
#8. For Q3, apply the possibility of changing color, shape, add bars (type='h') horizontal.
scatterplot3d(titanic_df\$Pclass,titanic_df\$Sex,titanic_df\$Parch,color = as.numeric((titanic_d
f\$Survived),xlab="class",ylab="Sex",zlab="Frequency",main="Scatterplot3d",pch=16,type="h"))

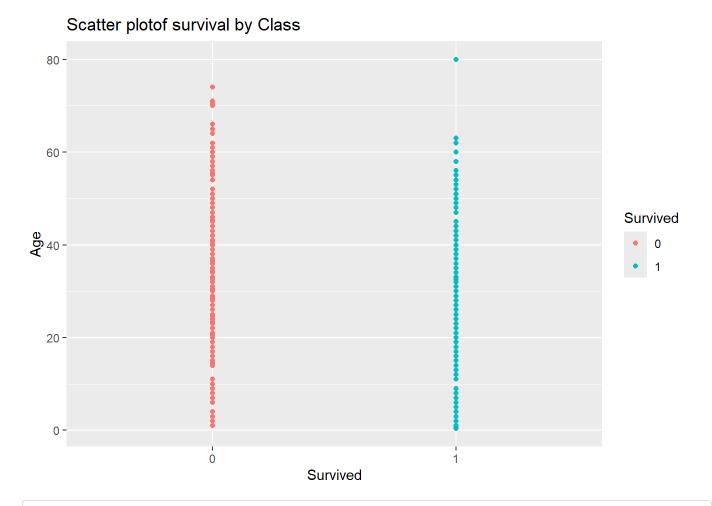
Survived

1



#9. Display 3D barplot
ggplot(titanic_df,aes(x=Survived,y=Age,color=Survived))+geom_point()+labs(title = "Scatter pl
otof survival by Class",x="Survived",y="Age")

 $\mbox{\tt ## Warning: Removed 177 rows containing missing values or values outside the scale range <math display="inline">\mbox{\tt ## (`geom_point()`).}$



#10. Display 2D boxbolt (one variable as Categorical)
ggplot(titanic_df,aes(x=Pclass,y=Sex,fll=Survived))+geom_boxplot()+labs(title = "Boxplotofsur vivalbyclass",x="Pclass",y="Parch")

