Worksheet 6

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```
Stud_Score <- data.frame(</pre>
  Student = c(1:10),
  Pre_test = c(55,54,47,57,51,61,57,54,63,58),
  Post_test = c(61,60,56,63,56,63,59,56,62,61)
Stud_Score
##
      Student Pre_test Post_test
## 1
            1
                    55
## 2
            2
                    54
                               60
            3
## 3
                    47
                               56
## 4
            4
                    57
                               63
## 5
            5
                    51
                               56
            6
## 6
                               63
                    61
## 7
            7
                    57
                               59
            8
## 8
                               56
                    54
## 9
            9
                    63
                               62
## 10
           10
                    58
                               61
library(pastecs)
library(Hmisc)
##
## Attaching package: 'Hmisc'
## The following objects are masked from 'package:base':
##
##
       format.pval, units
pastecs_Stats <- stat.desc(Stud_Score)</pre>
pastecs_Stats
##
                    Student
                                Pre_test
                                             Post_test
## nbr.val
                10.0000000
                             10.00000000
                                           10.00000000
## nbr.null
                 0.000000
                              0.0000000
                                            0.00000000
## nbr.na
                 0.000000
                              0.00000000
                                            0.0000000
## min
                 1.0000000
                             47.0000000
                                           56.0000000
                10.000000
                             63.00000000
                                           63.00000000
## max
## range
                 9.0000000
                             16.00000000
                                            7.0000000
## sum
                55.0000000 557.00000000 597.00000000
## median
                 5.5000000 56.00000000 60.50000000
## mean
                 5.5000000 55.70000000
                                          59.70000000
## SE.mean
                 0.9574271
                              1.46855938
                                            0.89504811
## CI.mean.0.95 2.1658506
                              3.32211213
                                            2.02473948
## var
                 9.1666667 21.56666667
                                            8.01111111
```

```
## std.dev
               3.0276504 4.64399254
                                       2.83039063
## coef.var
               0.5504819 0.08337509 0.04741023
hmisc_Stats <- Hmisc::describe(Stud_Score[,c("Pre_test","Post_test")])</pre>
hmisc_Stats
## Stud_Score[, c("Pre_test", "Post_test")]
##
## 2 Variables
                   10 Observations
## Pre test
       n missing distinct
                              Info Mean
                                                 Gmd
##
        10
              0
                      8 0.988 55.7 5.444
##
             47 51 54 55 57 58 61 63
## Value
## Frequency 1 1 2 1 2 1 1
## Proportion 0.1 0.1 0.2 0.1 0.2 0.1 0.1
\#\# For the frequency table, variable is rounded to the nearest 0
## Post_test
##
                              Info Mean
        n missing distinct
                                                  Gmd
                    6 0.964
                                     59.7
##
        10
             0
##
## Value
             56 59 60 61 62 63
              3 1 1 2
## Frequency
## Proportion 0.3 0.1 0.1 0.2 0.1 0.2
##
## For the frequency table, variable is rounded to the nearest 0
library(dplyr)
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:Hmisc':
##
##
      src, summarize
## The following objects are masked from 'package:pastecs':
##
      first, last
## The following objects are masked from 'package:stats':
##
      filter, lag
## The following objects are masked from 'package:base':
##
      intersect, setdiff, setequal, union
LevelFert <- c(10,10,10, 20,20,50,10,20,10,50,20,50,20,10)
orderedLvlFertilizer <- factor(LevelFert, levels = unique(LevelFert))</pre>
summary_Fertilizer <- summary(orderedLvlFertilizer)</pre>
summary_Fertilizer
```

```
## 10 20 50
## 6 5 3
factoredLvlExercise <- factor(LevelExer, levels = c("n","l","i"))</pre>
summary_Exercise <- summary(factoredLvlExercise)</pre>
summary_Exercise
## n l i
## 5 4 1
States <- c("tas", "sa", "qld", "nsw", "nsw", "nt", "wa", "wa", "qld", "vic", "nsw", "vic", "qld", "qld
factored_State <- factor(States)</pre>
factored_State
## [1] tas sa qld nsw nsw nt wa wa qld vic nsw vic qld qld sa tas sa nt wa
## [20] vic qld nsw nsw wa sa act nsw vic vic act
## Levels: act nsw nt qld sa tas vic wa
summary States <- summary(factored State)</pre>
summary_States
## act nsw nt qld sa tas vic wa
           2 5
       6
                   4
                        2
# The outcome will be a factor that corresponds to the distinct values in the initial character vector.
incomes \leftarrow c(60, 49, 40, 61, 64, 60, 59, 54,
62, 69, 70, 42, 56, 61, 61, 61, 58, 51, 48,
65, 49, 49, 41, 48, 52, 46, 59, 46, 58, 43)
mean_Incomes <- tapply(incomes, factored_State, mean)</pre>
mean_Incomes
##
        act
                nsw
                          nt
                                   qld
                                                    tas
                                                             vic
                                                                       wa
## 44.50000 57.33333 55.50000 53.60000 55.00000 60.50000 56.00000 52.25000
std_Error <- function(x) sqrt(var(x)/length(x))</pre>
incster <- tapply(incomes, States, std_Error)</pre>
standard_Error <- tapply(incomes, factored_State, std_Error)</pre>
standard_Error
                                  qld
                                            sa
                                                    tas
## 1.500000 4.310195 4.500000 4.106093 2.738613 0.500000 5.244044 2.657536
library(titanic)
data("titanic_train")
titanic_data <- titanic_train</pre>
str(titanic_data)
## 'data.frame':
                   891 obs. of 12 variables:
## $ 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 ...

```
## $ Name : chr "Braund, Mr. Owen Harris" "Cumings, Mrs. John Bradley (Florence Briggs Thayer)"
## $ Sex
             : chr "male" "female" "female" "female" ...
             : num 22 38 26 35 35 NA 54 2 27 14 ...
## $ Age
## $ SibSp
              : int 1 1 0 1 0 0 0 3 0 1 ...
             : int 000000120 ...
## $ Parch
             : chr "A/5 21171" "PC 17599" "STON/O2. 3101282" "113803" ...
## $ Ticket
## $ Fare
             : num 7.25 71.28 7.92 53.1 8.05 ...
## $ Cabin : chr "" "C85" "" "C123" ...
## $ Embarked : chr "S" "C" "S" "S" ...
survived <- subset(titanic_data, Survived == 1)</pre>
survived
```

##	PassengerId	Survived	Pclass
## 2	2	1	1
## 3	3	1	3
## 4	4	1	1
## 9	9	1	3
## 10	10	1	2
## 11	11	1	3
## 12	12	1	1
## 16	16	1	2
## 18	18	1	2
## 20	20	1	3
## 22	22	1	2
## 23	23	1	3
## 24	24	1	1
## 26	26	1	3
## 29	29	1	3
## 32	32	1	1
## 33	33	1	3
## 37	37	1	3
## 40	40	1	3
## 44	44	1	2
## 45	45	1	3
## 48	48	1	3
## 53	53	1	1
## 54	54	1	2
## 56	56	1	1
## 57	57	1	2
## 59	59	1	2
## 62	62	1	1
## 66	66	1	3
## 67	67	1	2
## 69	69	1	3
## 75	75 70	1	3
## 79	79	1	2
## 80 ## 82	80 82	1 1	3 3
## 82 ## 83	82	1	3
## 83 ## 85	83	1	2
## 86	86	1	3
## 89	89	1	3 1
	98		1
## 98 ## 99	99	1	2
## 99	99	1	2

## 107	107	1	3
## 108	108	1	3
## 110	110	1	3
## 124	124	1	2
## 126	126	1	3
## 128	128	1	3
## 129	129	1	3
## 134	134	1	2
## 137	137	1	1
## 142	142	1	3
## 143	143	1	3
## 147	147	1	3
## 152	152	1	1
## 157	157	1	3
## 162	162	1	2
## 166	166	1	3
## 167	167	1	1
## 173	173	1	3
## 184	184	1	2
## 185	185	1	3
## 187	187	1	3
## 188	188	1	1
## 191	191	1	2
## 193	193	1	3
## 194	194	1	2
## 195	195	1	1
## 196	196	1	1
## 199	199	1	3
## 205	205	1	3
## 208	208	1	3
## 209	209	1	3
## 210	210	1	1
## 212	212	1	2
## 216	216	1	1
## 217	217	1	3
## 219	219	1	1
## 221	221	1	3
## 225	225	1	1
## 227	227	1	2
## 231 ## 234	231	1 1	1
	234		3
## 238 ## 242	238	1 1	2
## 242 ## 248	242 248	1	3 2
## 249	249	1	1
## 24 <i>9</i> ## 256	256	1	3
## 256 ## 257	256 257	1	3 1
## 25 <i>1</i> ## 258	25 <i>1</i> 258	1	1
## 258 ## 259	258 259	1	1
## 259 ## 260	259 260	1	2
## 260	262	1	3
## 262 ## 268	268	1	3
## 269	269	1	1
## 209	270	1	1
nπ 210	210	1	_

##	272	272	1	3
##	273	273	1	2
##	275	275	1	3
##	276	276	1	1
##	280	280	1	3
##	284	284	1	3
##	287	287	1	3
##	289	289	1	2
##	290	290	1	3
##	291	291	1	1
##	292	292	1	1
##	299	299	1	1
##	300	300	1	1
##	301	301	1	3
##	302	302	1	3
##	304	304	1	2
##	306	306	1	1
##	307	307	1	1
##	308	308	1	1
##	310	310	1	1
##	311	311	1	1
##	312	312	1	1
##	316	316	1	3
##	317	317	1	2
##	319	319	1	1
##	320	320	1	1
##	323	323	1	2
##	324	324	1	2
##	326	326	1	1
##	328	328	1	2
##	329	329	1	3
##	330	330	1	1
##	331	331	1	3
##	335	335	1	1
##	338	338	1	1
##	339	339	1	3
##	341	341	1	2
##	342	342	1	1
##	346	346	1	2
##	347	347	1	2
##	348	348	1	3
##	349	349	1	3
##	357	357	1	1
##	359	359	1	3
##	360	360	1	3
##	367	367	1	1
##	368	368	1	3
##	369	369	1	3
##	370	370	1	1
##	371	371	1	1
##	376	376	1	1
##	377	377	1	3
##	381	381	1	1
##	382	382	1	3
##	J0Z	J0Z	1	S

## 384	384	1	1
## 388	388	1	2
## 390	390	1	2
## 391	391	1	1
## 392	392	1	3
## 394	394	1	1
## 395	395	1	3
## 400	400	1	2
## 401	401	1	3
## 408	408	1	2
## 413	413	1	1
## 415	415	1	3
## 417	417	1	2
## 418	418	1	2
## 427	427	1	2
## 428	428	1	2
## 430	430	1	3
## 431	431	1	1
## 432	432	1	3
## 433	433	1	2
## 436	436	1	1
## 438	438	1	2
## 441	441	1	2
## 444	444	1	2
## 445	445	1	3
## 446	446	1	1
## 447	447	1	2
## 448	448	1	1
## 449	449	1	3
## 450	450	1	1
## 454	454	1	1
## 456	456	1	3
## 458	458	1	1
## 459	459	1	2
## 461	461	1	1
## 470	470	1	3
## 473	473	1	2
## 474	474	1	2
## 480	480	1	3
## 484		1	3
	484		
## 485	485	1	1
## 487	487	1	1
## 490	490	1	3
## 497	497	1	1
## 505	505	1	1
## 507	507	1	2
## 508	508	1	1
## 510	510	1	3
## 511	511	1	3
## 513	513	1	1
## 514	514	1	1
## 517	517	1	2
## 519	519	1	2
## 521	521	1	1

##	524	524	1	1
##	527	527	1	2
##	531	531	1	2
##	534	534	1	3
##	536	536	1	2
##	538	538	1	1
##	540	540	1	1
##	541	541	1	1
##	544	544	1	2
##		547		
	547		1	2
##	548	548	1	2
##	550	550	1	2
##	551	551	1	1
##	554	554	1	3
##	555	555	1	3
##	557	557	1	1
##	559	559	1	1
##	560	560	1	3
##	570	570	1	3
##	571	571	1	2
##	572	572	1	1
##	573	573	1	1
##	574	574	1	3
##	577	577	1	2
##	578	578	1	1
##	580	580	1	3
##	581	581	1	2
##	582	582	1	1
##	586	586	1	1
##	588	588	1	1
##	592	592	1	1
##	597	597	1	2
##	600	600	1	1
##	601	601	1	2
##	605	605	1	1
##	608	608	1	1
##	609	609	1	2
##	610	610	1	1
##	613	613	1	3
##	616	616	1	2
##	619	619	1	2
##	622	622	1	1
##	623	623	1	3
##	628	628	1	1
##	631	631	1	1
##	633	633	1	1
##	636	636	1	2
##	642	642	1	1
##	644	644	1	3
##	645	645	1	3
##	646	646	1	1
##	648	648	1	1
##	650	650	1	3
##	652	652	1	2

##	654	654	1	3
##	661	661	1	1
##	665	665	1	3
##	670	670	1	1
##	671	671	1	2
##	674	674	1	2
##	678	678	1	3
##	680	680	1	1
##	682	682	1	1
##	690	690	1	1
##	691	691	1	1
##	692	692	1	3
##	693	693	1	3
##	698	698	1	3
##	701	701	1	1
##	702	702	1	1
##	707	707	1	2
##	708	708	1	1
##	709	709	1	1
##	710	710	1	3
##	711	711	1	1
##	713	713	1	1
##	717	717	1	1
##	718	718	1	2
##	721	721	1	2
##	725	725	1	1
##	727	727	1	2
##	728	728	1	3
##	731	731	1	1
##	738	738	1	1
##	741	741	1	1
##	743	743	1	1
##	745	745	1	3
##	748	748	1	2
##	751	751	1	2
##	752	752	1	3
##	755	755	1	2
##	756	756	1	2
		760		
##	760		1	1
##	763	763	1	3
##	764	764	1	1
##	766	766	1	1
##	775	775	1	2
##	778	778	1	3
##	780	780	1	1
##	781	781	1	3
##	782	782	1	1
##	787	787	1	3
##	789	789	1	3
##	797	797	1	1
##	798	798	1	3
##	802	802	1	2
##	803	803	1	1
##	804	804	1	3
##	JU-1	00 1	1	3

```
## 810
                810
                            1
                                    1
## 821
                821
                            1
                                    1
## 822
                822
                                    3
                            1
                                    3
## 824
                824
                            1
## 828
                828
                            1
                                   2
## 829
                            1
                                    3
                829
## 830
                830
                            1
                                    1
## 831
                831
                            1
                                    3
## 832
                                    2
                832
                            1
## 836
                836
                            1
                                    1
                                    3
## 839
                839
                            1
                            1
## 840
                840
                                    1
## 843
                            1
                                    1
                843
## 850
                850
                            1
                                    1
## 854
                854
                            1
                                    1
## 856
                856
                            1
                                    3
## 857
                857
                            1
                                    1
## 858
                858
                            1
                                    1
                            1
                                    3
## 859
                859
## 863
                863
                            1
                                    1
## 866
                866
                            1
                                    2
                                    2
## 867
                867
                            1
## 870
                870
                            1
                                    3
## 872
                            1
                                    1
                872
## 875
                875
                            1
                                    2
                876
## 876
                            1
                                    3
## 880
                880
                            1
                                    1
                                    2
                            1
## 881
                881
## 888
                888
                            1
                                    1
## 890
                890
                            1
                                    1
##
                                                                                            Name
## 2
                                         Cumings, Mrs. John Bradley (Florence Briggs Thayer)
## 3
                                                                         Heikkinen, Miss. Laina
                                                 Futrelle, Mrs. Jacques Heath (Lily May Peel)
## 4
## 9
                                           Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)
## 10
                                                          Nasser, Mrs. Nicholas (Adele Achem)
## 11
                                                               Sandstrom, Miss. Marguerite Rut
## 12
                                                                       Bonnell, Miss. Elizabeth
## 16
                                                              Hewlett, Mrs. (Mary D Kingcome)
## 18
                                                                  Williams, Mr. Charles Eugene
## 20
                                                                        Masselmani, Mrs. Fatima
## 22
                                                                          Beesley, Mr. Lawrence
## 23
                                                                   McGowan, Miss. Anna "Annie"
## 24
                                                                  Sloper, Mr. William Thompson
## 26
                                  Asplund, Mrs. Carl Oscar (Selma Augusta Emilia Johansson)
                                                                 O'Dwyer, Miss. Ellen "Nellie"
## 29
## 32
                                              Spencer, Mrs. William Augustus (Marie Eugenie)
## 33
                                                                       Glynn, Miss. Mary Agatha
## 37
                                                                               Mamee, Mr. Hanna
## 40
                                                                   Nicola-Yarred, Miss. Jamila
## 44
                                                     Laroche, Miss. Simonne Marie Anne Andree
## 45
                                                                 Devaney, Miss. Margaret Delia
                                                                     O'Driscoll, Miss. Bridget
## 48
```

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3

	53	Harper, Mrs. Henry Sleeper (Myna Haxtun)
	54	Faunthorpe, Mrs. Lizzie (Elizabeth Anne Wilkinson)
##		Woolner, Mr. Hugh
##		Rugg, Miss. Emily
##		West, Miss. Constance Mirium
##		Icard, Miss. Amelie
##		Moubarek, Master. Gerios
##		Nye, Mrs. (Elizabeth Ramell)
##		Andersson, Miss. Erna Alexandra
##		Bing, Mr. Lee
##	79	Caldwell, Master. Alden Gates
##	80	Dowdell, Miss. Elizabeth
##	82	Sheerlinck, Mr. Jan Baptist
##	83	McDermott, Miss. Brigdet Delia
##	85	Ilett, Miss. Bertha
##	86	Backstrom, Mrs. Karl Alfred (Maria Mathilda Gustafsson)
##	89	Fortune, Miss. Mabel Helen
##	98	Greenfield, Mr. William Bertram
##	99	Doling, Mrs. John T (Ada Julia Bone)
##	107	Salkjelsvik, Miss. Anna Kristine
##	108	Moss, Mr. Albert Johan
##	110	Moran, Miss. Bertha
##	124	Webber, Miss. Susan
##	126	Nicola-Yarred, Master. Elias
##	128	Madsen, Mr. Fridtjof Arne
##	129	Peter, Miss. Anna
##	134	Weisz, Mrs. Leopold (Mathilde Francoise Pede)
##	137	Newsom, Miss. Helen Monypeny
##	142	Nysten, Miss. Anna Sofia
##	143	Hakkarainen, Mrs. Pekka Pietari (Elin Matilda Dolck)
##	147	Andersson, Mr. August Edvard ("Wennerstrom")
##	152	Pears, Mrs. Thomas (Edith Wearne)
##	157	Gilnagh, Miss. Katherine "Katie"
##	162	Watt, Mrs. James (Elizabeth "Bessie" Inglis Milne)
##	166	Goldsmith, Master. Frank John William "Frankie"
##	167	Chibnall, Mrs. (Edith Martha Bowerman)
##	173	Johnson, Miss. Eleanor Ileen
##	184	Becker, Master. Richard F
##	185	Kink-Heilmann, Miss. Luise Gretchen
##	187	O'Brien, Mrs. Thomas (Johanna "Hannah" Godfrey)
##	188	Romaine, Mr. Charles Hallace ("Mr C Rolmane")
##	191	Pinsky, Mrs. (Rosa)
##	193	Andersen-Jensen, Miss. Carla Christine Nielsine
##	194	Navratil, Master. Michel M
##	195	Brown, Mrs. James Joseph (Margaret Tobin)
##	196	Lurette, Miss. Elise
##	199	Madigan, Miss. Margaret "Maggie"
##	205	Cohen, Mr. Gurshon "Gus"
##	208	Albimona, Mr. Nassef Cassem
##	209	Carr, Miss. Helen "Ellen"
##	210	Blank, Mr. Henry
##	212	Cameron, Miss. Clear Annie
##	216	Newell, Miss. Madeleine
##	217	Honkanen, Miss. Eliina

	219	Bazzani, Miss. Albina
	221	Sunderland, Mr. Victor Francis
	225	Hoyt, Mr. Frederick Maxfield
	227	Mellors, Mr. William John
	231	Harris, Mrs. Henry Birkhardt (Irene Wallach)
	234	Asplund, Miss. Lillian Gertrud
	238 242	Collyer, Miss. Marjorie "Lottie" Murphy, Miss. Katherine "Kate"
	248	Hamalainen, Mrs. William (Anna)
	249	Beckwith, Mr. Richard Leonard
	256	Touma, Mrs. Darwis (Hanne Youssef Razi)
	257	Thorne, Mrs. Gertrude Maybelle
	258	Cherry, Miss. Gladys
	259	Ward, Miss. Anna
	260	Parrish, Mrs. (Lutie Davis)
	262	Asplund, Master. Edvin Rojj Felix
	268	Persson, Mr. Ernst Ulrik
	269	Graham, Mrs. William Thompson (Edith Junkins)
	270	Bissette, Miss. Amelia
	272	Tornquist, Mr. William Henry
##	273	Mellinger, Mrs. (Elizabeth Anne Maidment)
##	275	Healy, Miss. Hanora "Nora"
##	276	Andrews, Miss. Kornelia Theodosia
##	280	Abbott, Mrs. Stanton (Rosa Hunt)
##	284	Dorking, Mr. Edward Arthur
##	287	de Mulder, Mr. Theodore
##	289	Hosono, Mr. Masabumi
##	290	Connolly, Miss. Kate
##	291	Barber, Miss. Ellen "Nellie"
##	292	Bishop, Mrs. Dickinson H (Helen Walton)
	299	Saalfeld, Mr. Adolphe
	300	Baxter, Mrs. James (Helene DeLaudeniere Chaput)
	301	Kelly, Miss. Anna Katherine "Annie Kate"
	302	McCoy, Mr. Bernard
	304	Keane, Miss. Nora A
	306	Allison, Master. Hudson Trevor
	307	Fleming, Miss. Margaret
		Penasco y Castellana, Mrs. Victor de Satode (Maria Josefa Perez de Soto y Vallejo)
	310 311	Francatelli, Miss. Laura Mabel
	312	Hays, Miss. Margaret Bechstein Ryerson, Miss. Emily Borie
	316	Nilsson, Miss. Helmina Josefina
	317	Kantor, Mrs. Sinai (Miriam Sternin)
	319	Wick, Miss. Mary Natalie
	320	Spedden, Mrs. Frederic Oakley (Margaretta Corning Stone)
	323	Slayter, Miss. Hilda Mary
	324	Caldwell, Mrs. Albert Francis (Sylvia Mae Harbaugh)
	326	Young, Miss. Marie Grice
	328	Ball, Mrs. (Ada E Hall)
	329	Goldsmith, Mrs. Frank John (Emily Alice Brown)
##	330	Hippach, Miss. Jean Gertrude
##	331	McCoy, Miss. Agnes
##	335	Frauenthal, Mrs. Henry William (Clara Heinsheimer)
##	338	Burns, Miss. Elizabeth Margaret

	339	Dahl, Mr. Karl Edwart
	341	Navratil, Master. Edmond Roger
	342	Fortune, Miss. Alice Elizabeth
	346	Brown, Miss. Amelia "Mildred"
	347	Smith, Miss. Marion Elsie
	348	Davison, Mrs. Thomas Henry (Mary E Finck)
	349	Coutts, Master. William Loch "William"
	357 359	Bowerman, Miss. Elsie Edith
	360	McGovern, Miss. Mary
	367	Mockler, Miss. Helen Mary "Ellie" 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
	376	Meyer, Mrs. Edgar Joseph (Leila Saks)
	377	Landergren, Miss. Aurora Adelia
	381	Bidois, Miss. Rosalie
	382	Nakid, Miss. Maria ("Mary")
	384	Holverson, Mrs. Alexander Oskar (Mary Aline Towner)
	388	Buss, Miss. Kate
	390	Lehmann, Miss. Bertha
##	391	Carter, Mr. William Ernest
##	392	Jansson, Mr. Carl Olof
##	394	Newell, Miss. Marjorie
##	395	Sandstrom, Mrs. Hjalmar (Agnes Charlotta Bengtsson)
##	400	Trout, Mrs. William H (Jessie L)
##	401	Niskanen, Mr. Juha
##	408	Richards, Master. William Rowe
##	413	Minahan, Miss. Daisy E
##	415	Sundman, Mr. Johan Julian
##	417	Drew, Mrs. James Vivian (Lulu Thorne Christian)
##	418	Silven, Miss. Lyyli Karoliina
##	427	Clarke, Mrs. Charles V (Ada Maria Winfield)
	428	Phillips, Miss. Kate Florence ("Mrs Kate Louise Phillips Marshall")
	430	Pickard, Mr. Berk (Berk Trembisky)
	431	Bjornstrom-Steffansson, Mr. Mauritz Hakan
	432	Thorneycroft, Mrs. Percival (Florence Kate White)
	433	Louch, Mrs. Charles Alexander (Alice Adelaide Slow)
	436	Carter, Miss. Lucile Polk
	438	Richards, Mrs. Sidney (Emily Hocking)
	441	Hart, Mrs. Benjamin (Esther Ada Bloomfield)
	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
	454	Goldenberg, Mr. Samuel L
	456	Jalsevac, Mr. Ivan
	458	Kenyon, Mrs. Frederick R (Marion)
	459	Toomey, Miss. Ellen
##	461	Anderson, Mr. Harry

	470	Baclini, Miss. Helene Barbara
	473	West, Mrs. Edwy Arthur (Ada Mary Worth)
	474	Jerwan, Mrs. Amin S (Marie Marthe Thuillard)
	480 484	Hirvonen, Miss. Hildur E
		Turkula, Mrs. (Hedwig)
	485 487	Bishop, Mr. Dickinson H Hoyt, Mrs. Frederick Maxfield (Jane Anne Forby)
	490	Coutts, Master. Eden Leslie "Neville"
	497	Eustis, Miss. Elizabeth Mussey
	505	Maioni, Miss. Roberta
	507	Quick, Mrs. Frederick Charles (Jane Richards)
	508	Bradley, Mr. George ("George Arthur Brayton")
	510	Lang, Mr. Fang
	511	Daly, Mr. Eugene Patrick
##	513	McGough, Mr. James Robert
##	514	Rothschild, Mrs. Martin (Elizabeth L. Barrett)
##	517	Lemore, Mrs. (Amelia Milley)
##	519	Angle, Mrs. William A (Florence "Mary" Agnes Hughes)
##	521	Perreault, Miss. Anne
##	524	Hippach, Mrs. Louis Albert (Ida Sophia Fischer)
##	527	Ridsdale, Miss. Lucy
	531	Quick, Miss. Phyllis May
	534	Peter, Mrs. Catherine (Catherine Rizk)
	536	Hart, Miss. Eva Miriam
	538	LeRoy, Miss. Bertha
	540	Frolicher, Miss. Hedwig Margaritha
	541	Crosby, Miss. Harriet R
	544 547	Beane, Mr. Edward
	548	Beane, Mrs. Edward (Ethel Clarke) Padro y Manent, Mr. Julian
	550	Davies, Master. John Morgan Jr
	551	Thayer, Mr. John Borland Jr
	554	Leeni, Mr. Fahim ("Philip Zenni")
	555	Ohman, Miss. Velin
	557	Duff Gordon, Lady. (Lucille Christiana Sutherland) ("Mrs Morgan")
##	559	Taussig, Mrs. Emil (Tillie Mandelbaum)
##	560	de Messemaeker, Mrs. Guillaume Joseph (Emma)
##	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
	577	Garside, Miss. Ethel
	578	Silvey, Mrs. William Baird (Alice Munger)
	580	Jussila, Mr. Eiriik
	581	Christy, Miss. Julie Rachel
	582	Thayer, Mrs. John Borland (Marian Longstreth Morris)
	586	Taussig, Miss. Ruth
	588	Frolicher-Stehli, Mr. Maxmillian
	592 507	Stephenson, Mrs. Walter Bertram (Martha Eustis)
	597 600	Leitch, Miss. Jessie Wills Duff Cordon Sir Cosmo Edmund ("Mr Morgan")
	600	Duff Gordon, Sir. Cosmo Edmund ("Mr Morgan")
	605	Jacobsohn, Mrs. Sidney Samuel (Amy Frances Christy) Homer, Mr. Harry ("Mr E Haven")
##	000	nomer, rr. narry ("rr E naver")

## 608	Daniel, Mr. Robert Williams
## 609	Laroche, Mrs. Joseph (Juliette Marie Louise Lafargue)
## 610	Shutes, Miss. Elizabeth W
## 613	Murphy, Miss. Margaret Jane
## 616	Herman, Miss. Alice
## 619	Becker, Miss. Marion Louise
## 622	Kimball, Mr. Edwin Nelson Jr
## 623	Nakid, Mr. Sahid
## 628	Longley, Miss. Gretchen Fiske
## 631	Barkworth, Mr. Algernon Henry Wilson
## 633	Stahelin-Maeglin, Dr. Max
## 636	Davis, Miss. Mary
## 642	Sagesser, Mlle. Emma
## 644	Foo, Mr. Choong
## 645	Baclini, Miss. Eugenie
## 646	Harper, Mr. Henry Sleeper
## 648	Simonius-Blumer, Col. Oberst Alfons
## 650	Stanley, Miss. Amy Zillah Elsie
## 652	Doling, Miss. Elsie
## 654	O'Leary, Miss. Hanora "Norah"
## 661	Frauenthal, Dr. Henry William
## 665	Lindqvist, Mr. Eino William
## 670	Taylor, Mrs. Elmer Zebley (Juliet Cummins Wright)
## 671	Brown, Mrs. Thomas William Solomon (Elizabeth Catherine Ford)
## 674	Wilhelms, Mr. Charles
## 678 ## 680	Turja, Miss. Anna Sofia
## 682	Cardeza, Mr. Thomas Drake Martinez
## 690	Hassab, Mr. Hammad Madill, Miss. Georgette Alexandra
## 691	Dick, Mr. Albert Adrian
## 692	Karun, Miss. Manca
## 693	Lam, Mr. Ali
## 698	Mullens, Miss. Katherine "Katie"
## 701	Astor, Mrs. John Jacob (Madeleine Talmadge Force)
## 702	Silverthorne, Mr. Spencer Victor
## 707	Kelly, Mrs. Florence "Fannie"
## 708	Calderhead, Mr. Edward Pennington
## 709	Cleaver, Miss. Alice
## 710	Moubarek, Master. Halim Gonios ("William George")
## 711	Mayne, Mlle. Berthe Antonine ("Mrs de Villiers")
## 713	Taylor, Mr. Elmer Zebley
## 717	Endres, Miss. Caroline Louise
## 718	Troutt, Miss. Edwina Celia "Winnie"
## 721	Harper, Miss. Annie Jessie "Nina"
## 725	Chambers, Mr. Norman Campbell
## 727	Renouf, Mrs. Peter Henry (Lillian Jefferys)
## 728	Mannion, Miss. Margareth
## 731	Allen, Miss. Elisabeth Walton
## 738	Lesurer, Mr. Gustave J
## 741	Hawksford, Mr. Walter James
## 743	Ryerson, Miss. Susan Parker "Suzette"
## 745	Stranden, Mr. Juho
## 748	Sinkkonen, Miss. Anna
## 751	Wells, Miss. Joan
	,,

```
## 752
                                                                        Moor, Master. Meier
## 755
                                                           Herman, Mrs. Samuel (Jane Laver)
                                                                  Hamalainen, Master. Viljo
## 756
## 760
                                  Rothes, the Countess. of (Lucy Noel Martha Dyer-Edwards)
## 763
                                                                      Barah, Mr. Hanna Assi
## 764
                                                 Carter, Mrs. William Ernest (Lucile Polk)
## 766
                                                      Hogeboom, Mrs. John C (Anna Andrews)
                                                     Hocking, Mrs. Elizabeth (Eliza Needs)
## 775
## 778
                                                              Emanuel, Miss. Virginia Ethel
## 780
                                     Robert, Mrs. Edward Scott (Elisabeth Walton McMillan)
## 781
                                                                       Ayoub, Miss. Banoura
## 782
                                                 Dick, Mrs. Albert Adrian (Vera Gillespie)
## 787
                                                                  Sjoblom, Miss. Anna Sofia
## 789
                                                                 Dean, Master. Bertram Vere
## 797
                                                                Leader, Dr. Alice (Farnham)
## 798
                                                                           Osman, Mrs. Mara
## 802
                                               Collyer, Mrs. Harvey (Charlotte Annie Tate)
## 803
                                                       Carter, Master. William Thornton II
## 804
                                                            Thomas, Master. Assad Alexander
                                                                    Hedman, Mr. Oskar Arvid
## 805
## 810
                                            Chambers, Mrs. Norman Campbell (Bertha Griggs)
## 821
                                        Hays, Mrs. Charles Melville (Clara Jennings Gregg)
## 822
                                                                          Lulic, Mr. Nikola
## 824
                                                                         Moor, Mrs. (Beila)
## 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
## 836
                                                                Compton, Miss. Sara Rebecca
## 839
                                                                            Chip, Mr. Chang
## 840
                                                                       Marechal, Mr. Pierre
## 843
                                                                    Serepeca, Miss. Augusta
## 850
                                              Goldenberg, Mrs. Samuel L (Edwiga Grabowska)
## 854
                                                                  Lines, Miss. Mary Conover
## 856
                                                                 Aks, Mrs. Sam (Leah Rosen)
## 857
                                                Wick, Mrs. George Dennick (Mary Hitchcock)
## 858
                                                                     Daly, Mr. Peter Denis
## 859
                                                     Baclini, Mrs. Solomon (Latifa Qurban)
## 863
                                       Swift, Mrs. Frederick Joel (Margaret Welles Barron)
## 866
                                                                   Bystrom, Mrs. (Karolina)
## 867
                                                               Duran y More, Miss. Asuncion
                                                            Johnson, Master. Harold Theodor
## 870
## 872
                                          Beckwith, Mrs. Richard Leonard (Sallie Monypeny)
## 875
                                                     Abelson, Mrs. Samuel (Hannah Wizosky)
## 876
                                                           Najib, Miss. Adele Kiamie "Jane"
## 880
                                             Potter, Mrs. Thomas Jr (Lily Alexenia Wilson)
## 881
                                              Shelley, Mrs. William (Imanita Parrish Hall)
## 888
                                                               Graham, Miss. Margaret Edith
## 890
                                                                      Behr, Mr. Karl Howell
##
                Age SibSp Parch
                                            Ticket
                                                       Fare
                                                                       Cabin
          Sex
## 2
       female 38.00
                               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
```

##	9	female	27.00	0	2	347742	11.1333	
##	10	${\tt female}$	14.00	1	0	237736	30.0708	
##	11	${\tt female}$	4.00	1	1	PP 9549	16.7000	G6
##	12	${\tt female}$	58.00	0	0	113783	26.5500	C103
##	16	${\tt female}$	55.00	0	0	248706	16.0000	
##	18	male	NA	0	0	244373	13.0000	
##	20	female	NA	0	0	2649	7.2250	
##	22	male	34.00	0	0	248698	13.0000	D56
##	23	female	15.00	0	0	330923	8.0292	
##	24	male	28.00	0	0	113788	35.5000	A6
##	26	female	38.00	1	5	347077	31.3875	
##	29	female	NA	0	0	330959	7.8792	
##	32	female	NA	1	0	PC 17569	146.5208	B78
##	33	female	NA	0	0	335677	7.7500	
##	37	male	NA	0	0	2677	7.2292	
##	40	female	14.00	1	0	2651	11.2417	
##	44	female	3.00	1	2	SC/Paris 2123	41.5792	
##	45	female		0	0	330958	7.8792	
	48	female	NA	0	0	14311	7.7500	
##	53	female	49.00	1	0	PC 17572	76.7292	D33
##		female		1	0	2926	26.0000	
##		male	NA	0	0	19947	35.5000	C52
	57	female		0	0	C.A. 31026	10.5000	
##		female	5.00	1	2	C.A. 34651	27.7500	
##		female		0	0	113572	80.0000	B28
	66	male	NA	1	1	2661	15.2458	220
	67	female		0	0	C.A. 29395	10.5000	F33
##	69	female		4	2	3101281	7.9250	100
	75		32.00	0	0	1601	56.4958	
	79	male	0.83	0	2	248738	29.0000	
##	80	female		0	0	364516	12.4750	
	82		29.00	0	0	345779	9.5000	
##		female	NA	0	0	330932	7.7875	
##		female		0	0	SO/C 14885	10.5000	
##		female		3	0	3101278	15.8500	
##	89	female		3	2		263.0000	C23 C25 C27
##			23.00	0	1	PC 17759	63.3583	D10 D12
##	99	female		0	1	231919	23.0000	DIO DIZ
		female		0	0	343120	7.6500	
	108	male	NA	0	0	312991	7.7750	
##		female	NA	1	0	371110	24.1500	
##		female		0	0	27267	13.0000	E101
	126		12.00	1	0	2651	11.2417	ши
	128		24.00	0	0	C 17369	7.1417	
##		female	NA	1	1	2668	22.3583	F E69
##		female		1	0	228414	26.0000	1 100
##		female		0	2	11752	26.2833	D47
##		female		0	0	347081	7.7500	ם דו
##		female		1	0	STON/02. 3101279	15.8500	
	143		27.00	0	0	350043	7.7958	
##		female			0			C2
		female		1	0	113776 35851	66.6000	62
							7.7333	
		female		0	0	C.A. 33595	15.7500	
##	166	male	9.00	0	2	363291	20.5250	

##	167	female	NA	0	1	113505	55.0000	E33
		female	1.00	1	1	347742	11.1333	
##	184	male	1.00	2	1	230136	39.0000	F4
##	185	female	4.00	0	2	315153	22.0250	
##	187	female	NA	1	0	370365	15.5000	
##	188	male	45.00	0	0	111428	26.5500	
##	191	female	32.00	0	0	234604	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
##	199	female	NA	0	0	370370	7.7500	
##	205	male	18.00	0	0	A/5 3540	8.0500	
##	208	male	26.00	0	0		18.7875	
##	209	female		0	0	367231	7.7500	
	210		40.00	0	0	112277		A31
##	212	female		0	0		21.0000	
##	216	female	31.00	1	0		113.2750	D36
##	217	female	27.00	0	0	STON/02. 3101283	7.9250	
##	219	female	32.00	0	0	11813	76.2917	D15
##	221	male	16.00	0	0	SOTON/OQ 392089	8.0500	
##	225	male	38.00	1	0	19943	90.0000	C93
##	227	male	19.00	0	0	SW/PP 751	10.5000	
##	231	female	35.00	1	0	36973	83.4750	C83
##	234	female	5.00	4	2	347077	31.3875	
##	238	female	8.00	0	2	C.A. 31921	26.2500	
##	242	female	NA	1	0	367230	15.5000	
##	248	female	24.00	0	2	250649	14.5000	
##	249	male	37.00	1	1	11751	52.5542	D35
##	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	${\tt female}$	35.00	0	0	PC 17755	512.3292	
##	260	${\tt female}$	50.00	0	1	230433	26.0000	
##	262	male	3.00	4	2	347077	31.3875	
##	268	male	25.00	1	0	347083	7.7750	
##	269	${\tt female}$	58.00	0	1	PC 17582	153.4625	C125
##	270	${\tt female}$	35.00	0	0	PC 17760	135.6333	C99
##	272	male	25.00	0	0	LINE	0.0000	
##	273	${\tt female}$	41.00	0	1	250644	19.5000	
##	275	${\tt female}$	NA	0	0	370375	7.7500	
##	276	${\tt female}$	63.00	1	0	13502	77.9583	D7
##	280	${\tt female}$	35.00	1	1	C.A. 2673	20.2500	
##	284	male	19.00	0	0	A/5. 10482	8.0500	
##	287	male	30.00	0	0	345774	9.5000	
##	289	male	42.00	0	0	237798	13.0000	
##	290	female	22.00	0	0	370373	7.7500	
		female		0	0	19877	78.8500	
		female	19.00	1	0	11967	91.0792	B49
	299	male	NA	0	0	19988	30.5000	C106
		female		0	1	PC 17558		B58 B60
		female	NA	0	0	9234	7.7500	
	302	male	NA	2	0	367226	23.2500	
##	304	female	NA	0	0	226593	12.3500	E101

	000	-	0 00		_	110701	454 5500		a 00	900
	306	male	0.92	1	2		151.5500		C22	C26
		female	NA	0	0		110.8833			acr
		female		1	0	PC 17758				C65
		female		0	0	PC 17485	56.9292			E36
		female		0	0	11767	83.1583	D.E.Z. D.	F0 D00	C54
		female		2	2		262.3750	B57 B	59 B63	B66
		female		0	0	347470	7.8542			
		female		1	0	244367	26.0000			
		female		0	2		164.8667			C7
		female		1	1		134.5000			E34
		female		0	0	234818	12.3500			
		female		1	1	248738	29.0000			
		female		0	0	PC 17760	135.6333			C32
##	328	female	36.00	0	0	28551	13.0000			D
##	329	female	31.00	1	1	363291	20.5250			
##	330	${\tt female}$	16.00	0	1	111361	57.9792			B18
##	331	${\tt female}$	NA	2	0	367226	23.2500			
##	335	${\tt female}$	NA	1	0	PC 17611	133.6500			
##	338	${\tt female}$	41.00	0	0	16966	134.5000			E40
##	339	male	45.00	0	0	7598	8.0500			
##	341	male	2.00	1	1	230080	26.0000			F2
##	342	female	24.00	3	2	19950	263.0000	C	23 C25	C27
##	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			
##	357	female	22.00	0	1	113505	55.0000			E33
##	359	female	NA	0	0	330931	7.8792			
##	360	female	NA	0	0	330980	7.8792			
##	367	female	60.00	1	0	110813	75.2500			D37
##		female	NA	0	0	2626	7.2292			
		female	NA	0	0	14313	7.7500			
##		female	24.00	0	0	PC 17477				B35
	371		25.00	1	0	11765	55.4417			E50
		female	NA	1	0	PC 17604				
##		female		0	0	C 7077	7.2500			
		female		0	0	PC 17757				
		female	1.00	0	2	2653	15.7417			
		female		1	0	113789				
		female		0	0	27849				
		female		0	0	SC 1748				
	391		36.00	1	2		120.0000		R96	B98
	392		21.00	0	0	350034	7.7958		Воо	ВОО
		female		1	0		113.2750			D36
		female		0	2	PP 9549	16.7000			G6
		female		0	0	240929				uo
	401		39.00	0		STON/O 2. 3101289	7.9250			
	401	male		1	1	29106	18.7500			
		female		1	0	19928	90.0000			C78
	415		44.00	0		STON/O 2. 3101269	7.9250			010
		female		1	1	28220	32.5000			
		female		0	2	250652	13.0000			
		female		1	0	2003	26.0000			
		female								
##	42ŏ	тешате	19.00	0	0	250655	26.0000			

	430		32.00	0	0	SOTON/O.Q. 392078	8.0500	E10
	431		28.00	0	0	110564	26.5500	C52
		female	NA	1	0	376564	16.1000	
		female		1	0	SC/AH 3085	26.0000	DOC DOO
		female		1	2		120.0000	B96 B98
		female		2	3	29106	18.7500	
		female		1	1	F.C.C. 13529	26.2500	
		female		0	0	230434	13.0000	
	445	male	NA 4 00	0	0	65306	8.1125	124
	446	male	4.00	0	2	33638	81.8583	A34
		female		0	1	250644	19.5000	
	448		34.00	0	0	113794	26.5500	
		female	5.00	2	1	2666	19.2583	2404
	450		52.00	0	0	113786	30.5000	C104
	454		49.00	1	0	17453	89.1042	C92
	456		29.00	0	0	349240	7.8958	201
		female	NA	1	0	17464	51.8625	D21
		female		0	0	F.C.C. 13531	10.5000	T40
	461		48.00	0	0	19952	26.5500	E12
		female	0.75	2	1	2666	19.2583	
		female		1	2	C.A. 34651	27.7500	
		female		0	0	SC/AH Basle 541	13.7917	D
		female	2.00	0	1	3101298	12.2875	
		female		0	0	4134	9.5875	D40
	485		25.00	1	0	11967	91.0792	B49
		female		1	0	19943	90.0000	C93
	490	male		1	1	C.A. 37671	15.9000	200
		female		1	0	36947	78.2667	D20
		female		0	0	110152	86.5000	B79
		female		0	2	26360	26.0000	
	508	male	NA	0	0	111427	26.5500	
	510		26.00	0	0	1601	56.4958	
	511		29.00	0	0	382651	7.7500	705
	513		36.00	0	0	PC 17473	26.2875	E25
		female		1	0	PC 17603	59.4000	700
		female		0	0	C.A. 34260	10.5000	F33
		female		1	0	226875	26.0000	770
		female		0	0	12749	93.5000	B73
		female		0	1	111361	57.9792	B18
		female		0	0	W./C. 14258		
		female		1	1	26360	26.0000	
		female	NA	0	2	2668	22.3583	
		female	7.00	0	2	F.C.C. 13529	26.2500	
		female		0	0		106.4250	D20
		female		0	2	13568	49.5000	B39
		female		0	2	WE/P 5735	71.0000	B22
	544		32.00	1	0	2908	26.0000 26.0000	
		female		1	0	2908		
	548	male	NA o oo	0	0	SC/PARIS 2146		
	550 551	male		1	1	C.A. 33112		070
	551 554		17.00	0	2		110.8833	C70
		female	22.00	0		2620 347085	7.2250	
		female		0	0	347085	7.7750	A 1 C
##	551	тешате	40.00	1	0	11755	39.6000	A16

		female		1	1	110413	79.6500	E67
		female		1	0	345572	17.4000	
	570		32.00	0	0	350417	7.8542	
	571		62.00	0	0	S.W./PP 752	10.5000	01.01
		female		2	0	11769	51.4792	C101
	573		36.00	0	0	PC 17474	26.3875	E25
		female	NA	0	0	14312	7.7500	
		female		0	0	243880	13.0000	T44
		female		1	0	13507	55.9000	E44
	580		32.00	0	0	STON/O 2. 3101286	7.9250	
##		female		1	1	237789	30.0000	900
##		female		1	1		110.8833	C68
##		female		0	2	110413	79.6500	E68
	588		60.00	1	1	13567	79.2000	B41
		female		1	0	36947	78.2667	D20
##		female	NA	0	0	248727	33.0000	
	600		49.00	1	0	PC 17485	56.9292	A20
		female		2	1	243847	27.0000	
	605		35.00	0	0	111426	26.5500	
	608		27.00	0	0	113804	30.5000	
		female		1	2	SC/Paris 2123	41.5792	~. ~~
		female		0	0	PC 17582		C125
		female	NA	1	0	367230	15.5000	
		female		1	2	220845	65.0000	
		female	4.00	2	1	230136	39.0000	F4
	622		42.00	1	0	11753	52.5542	D19
	623		20.00	1	1	2653	15.7417	
		female		0	0	13502	77.9583	D9
	631		80.00	0	0	27042	30.0000	A23
	633		32.00	0	0	13214	30.5000	B50
		female		0	0	237668	13.0000	202
		female		0	0	PC 17477	69.3000	B35
	644	male	NA	0	0	1601	56.4958	
		female	0.75	2	1	2666	19.2583	
	646		48.00	1	0	PC 17572	76.7292	D33
	648		56.00	0	0	13213	35.5000	A26
		female		0	0	CA. 2314	7.5500	
		female		0	1	231919	23.0000	
		female	NA	0	0	330919		
	661		50.00	2	0		133.6500	
		male		1	0	STON/O 2. 3101285		~. ~~
		female	NA	1	0	19996		C126
		female		1	1	29750		
	674		31.00	0	0	244270		
		female		0	0	4138		DE4 DE0 DEE
	680		36.00	0	1		512.3292	B51 B53 B55
	682		27.00	0	0	PC 17572		D49
		female		0	1		211.3375	B5
	691		31.00	1	0	17474		B20
		female		0	1	349256		
	693	male	NA	0	0	1601		
		female		0	0	35852		200 201
		female		1	0		227.5250	C62 C64
##	702	male	35.00	0	0	PC 17475	26.2875	E24

##	707	female	45 00	0	0	223596	13.5000	
	708		42.00	0	0	PC 17476	26.2875	E24
		female		0	0		151.5500	път
	710	male	NA	1	1	2661	15.2458	
		female		0	0	PC 17482	49.5042	C90
	713		48.00	1	0	19996	52.0000	C126
		female		0	0	PC 17757		C45
		female		0	0	34218	10.5000	E101
		female		0	1	248727		ши
##	725		27.00	1	0	113806		E8
		female		3	0	31027	21.0000	10
##		female	NA	0	0	36866	7.7375	
##		female		0	0		211.3375	B5
	738		35.00	0	0	PC 17755		B101
	741	male	NA	0	0	16988	30.0000	D45
		female		2	2			B57 B59 B63 B66
	745		31.00	0	0	STON/O 2. 3101288	7.9250	DOT DOS DOS DOS
		female		0	0	250648	13.0000	
		female	4.00	1	1	29103	23.0000	
	752	male	6.00	0	1	392096	12.4750	E121
		female		1	2	220845		LIZI
	756	male	0.67	1	1	250649	14.5000	
		female		0	0	110152	86.5000	B77
	763		20.00	0	0	2663	7.2292	וום
		female		1	2		120.0000	B96 B98
##		female		1	0	13502	77.9583	D11
##		female		1	3	29105	23.0000	DII
##		female		0	0	364516	12.4750	
##		female		0	1		211.3375	В3
##		female		0	0	2687	7.2292	ъ
##		female		1	0	17474	57.0000	B20
##		female		0	0	3101265	7.4958	D20
##	789	male	1.00	1	2	C.A. 2315	20.5750	
##		female		0	0	17465	25.9292	D17
		female		0	0	349244	8.6833	DIT
##		female		1	1	C.A. 31921	26.2500	
	803		11.00	1	2		120.0000	B96 B98
	804	male	0.42	0	1	2625	8.5167	D30 D30
	805		27.00	0	0	347089	6.9750	
		female		1	0	113806	53.1000	E8
		female		1	1	12749	93.5000	B69
	822		27.00	0	0	315098	8.6625	Б03
		female		0	1	392096	12.4750	E121
	828	male	1.00	0	2	S.C./PARIS 2079	37.0042	LIZI
	829	male	NA	0	0	367228	7.7500	
		female		0	0	113572	80.0000	B28
		female		1	0	2659	14.4542	D20
	832	male		1	1	29106	18.7500	
		female		1	1	PC 17756	83.1583	E49
	839		32.00	0	0	1601	56.4958	113
	840	male	32.00 NA	0	0	11774	29.7000	C47
		female		0	0	113798	31.0000	041
		female	NA	1	0	17453		C92
		female		0	1	PC 17592	39.4000	D28
irm.	JJ-1	- omare	10.00	V	_	10 11092	00.4000	520

```
## 856 female 18.00
                                             392091
                               1
                                                       9.3500
## 857 female 45.00
                                              36928 164.8667
                         1
                                1
## 858
                                             113055 26.5500
         male 51.00
                                                                           E17
## 859 female 24.00
                                               2666
                                                     19.2583
                         0
                                3
## 863 female 48.00
                         0
                                0
                                              17466
                                                      25.9292
                                                                           D17
## 866 female 42.00
                                0
                                             236852 13.0000
                         0
## 867 female 27.00
                                0
                                      SC/PARIS 2149 13.8583
                         1
## 870
                                             347742 11.1333
         male 4.00
                         1
                                1
## 872 female 47.00
                         1
                               1
                                              11751 52.5542
                                                                           D35
## 875 female 28.00
                                          P/PP 3381 24.0000
                         1
                                0
## 876 female 15.00
                         0
                                0
                                               2667
                                                      7.2250
## 880 female 56.00
                                              11767 83.1583
                                                                           C50
                         0
                                1
## 881 female 25.00
                                             230433
                                                     26.0000
                         0
                               1
## 888 female 19.00
                                             112053 30.0000
                                                                           B42
                         0
                                0
## 890
         male 26.00
                         0
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                                             111369 30.0000
                                                                          C148
##
       Embarked
## 2
              С
## 3
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## 10
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              S
## 12
              S
## 16
              S
## 18
              S
## 20
              \mathsf{C}
## 22
              S
## 23
              Q
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## 24
## 26
              S
## 29
              Q
## 32
              С
## 33
              Q
              С
## 37
              С
## 40
              С
## 44
## 45
              Q
## 48
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## 53
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## 83
              Q
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## 86
              S
```

##	89	S
##	98	С
##	99	S
##	107	S
##	108	S
##	110	Q
##	124	S
##	126	С
##	128	S
##	129	С
##	134	S
##	137	S
##	142	S
##	143	S
##	147	S
##	152	S
##	157	Q
##	162	S
##	166	S
##	167	S
##	173	S
##	184	S
##	185	S
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##	191	S
##	191	S
##	194	S
##	195	C
##	196	C
##	199	Q
##	205	S
##	208	С
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##	212	S
##	216	С
##	217	S
##	219	С
##	221	S
##	225	S
##	227	S
##	231	S
##	234	S
##	238	S
##	242	Q
##	248	S
##	249	S
##	256	С
##	257	С
##	258	S
##	259	C
##	260	S
##	262	S

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

##	377	5	3
##	381	C	;
##	382	C	;
##	384	S	5
##	388	5	
##	390	C	
##	391	2	
##	392	2	
##	394	(
##	395	2	
##	400	5	
##	401	5	
##	408	2	
##	413	~ G	
##	415	5	-
##	417	5	
##	418	5	
##	427	5	
##	428	5	
##	430	5	
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##	433	5	
##	436	5	
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##	458	5	
##	459	5	
##	461	5	
##	470		
##	473	5	
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##	484	5	
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##	487	5	
##	490	5	
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##	505	9	
##	505	5	
	507	5	
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##	511	G S	•
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##	514	C	,

##	517	S
##	519	S
##	521	S
##	524	C
##	527	S
##	531	S
##	534	C
##	536	S
##	538	C
##	540	C
##	541	S
##	544	S S
##	547	
##	548 550	C S
## ##	551	C
##	554	C
##	555	S
##	557	C
##	559	S
##	560	S
##	570	S
##	571	S
##	572	S
##	573	S
##	574	Q
##	577	S
##	578	S
##	580	S
##	581	S
##	582	C
##	586	S
##	588	C
##	592	C
##	597	S
##	600	C
##	601	S
##	605	C
##	608	S
##	609	C
##	610	S
##	613	Q
##	616	S
##	619	S S
##	622 623	C
	628	S
##	631	S
##	633	C
##	636	S
##	642	C
##	644	S
##	645	C
##	646	C
	0.10	O

## ## ## ##	648 650 652 654 661	C S S Q S
##	665	S
##	670	S
##	671	S
##	674	S
##	678	S
##	680 682	C
##	690	S
##	691	S
##	692	C
##	693	S
##	698	Q
##	701	Ċ
##	702	S
##	707	S
##	708	S
##	709	S
##	710	C
##	711	C
##	713	S
## ##	717 718	C S
##	721	S
##	725	S
##	727	S
##	728	Q
##	731	S
##	738	С
##	741	S
##	743	С
##	745	S
##	748	S
##	751	S
##	752	S
##	755 756	S
##	756 760	S S
##	763	C
##	764	S
##	766	S
##	775	S
##	778	S
##	780	S
##	781	С
##	782	S
##	787	S
##	789	S
##	797	S
##	798	S

```
## 802
                S
## 803
                S
                С
## 804
## 805
                S
                S
## 810
                S
## 821
## 822
                S
## 824
                S
## 828
                \mathsf{C}
## 829
                Q
## 830
                С
## 831
## 832
                S
                С
## 836
## 839
                \mathsf{S}
                С
## 840
## 843
                С
                С
## 850
## 854
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                S
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## 875
                С
                С
## 876
                С
## 880
## 881
                S
## 888
                S
## 890
                С
dead <- subset(titanic_data, Survived == 0)</pre>
dead
##
        PassengerId Survived Pclass
## 1
                                     3
                              0
                   1
                                     3
## 5
                   5
                             0
## 6
                   6
                             0
                                     3
## 7
                   7
                              0
                                     1
## 8
                   8
                             0
                                     3
## 13
                  13
                              0
                                     3
## 14
                  14
                              0
                                     3
                                     3
## 15
                  15
                              0
## 17
                  17
                             0
                                     3
                              0
                                     3
## 19
                  19
                                     2
## 21
                  21
                              0
                                     3
## 25
                  25
                              0
## 27
                              0
                                     3
                  27
## 28
                  28
                              0
                                     1
## 30
                              0
                  30
                                     3
## 31
                  31
                              0
                                      1
```

##	34	34	0	2
##	35	35	0	1
##	36	36	0	1
##	38	38	0	3
##	39	39	0	3
##	41	41	0	3
##	42	42	0	2
##	43	43	0	3
##	46	46	0	3
##	47	47	0	3
##	49	49 50	0	3
## ##	50	50 51	0 0	3
##	51 52	52	0	3
##	55	52 55	0	1
##	58	58	0	3
##	60	60	0	3
##	61	61	0	3
##	63	63	0	1
##	64	64	0	3
##	65	65	0	1
##	68	68	0	3
##	70	70	0	3
##	71	71	0	2
##	72	72	0	3
##	73	73	0	2
##	74	74	0	3
##	76	76	0	3
##	77	77	0	3
##	78	78	0	3
##	81	81	0	3
##	84	84	0	1
##	87	87	0	3
##	88	88	0	3
##	90	90	0	3
##	91	91	0	3
##	92	92	0	3
##	93	93	0 0	1 3
## ##	94 95	94 95	0	3
##	96	96	0	3
##	97	97	0	1
##	100	100	0	2
##	101	101	0	3
##	102	102	0	3
##	103	103	0	1
##	104	104	0	3
##	105	105	0	3
##	106	106	0	3
##	109	109	0	3
##	111	111	0	1
##	112	112	0	3
##	113	113	0	3
##	114	114	0	3

##	115	115	0	3
##	116	116	0	3
##	117	117	0	3
##	118	118	0	2
##	119	119	0	1
##				
	120	120	0	3
##	121	121	0	2
##	122	122	0	3
##	123	123	0	2
##	125	125	0	1
##	127	127	0	3
##	130	130	0	3
##	131	131	0	3
##	132	132	0	3
	133	133		3
##			0	
##	135	135	0	2
##	136	136	0	2
##	138	138	0	1
##	139	139	0	3
##	140	140	0	1
##	141	141	0	3
##	144	144	0	3
##	145	145	0	2
##	146	146	0	2
##	148	148	0	3
##	149	149	0	2
				2
##	150	150	0	
##	151	151	0	2
##	153	153	0	3
##	154	154	0	3
##	155	155	0	3
##	156	156	0	1
##	158	158	0	3
##	159	159	0	3
##	160	160	0	3
##	161	161	0	3
##	163	163	0	3
##	164		_	
##	165	164 165	0	3
##	168	168	0	3
##	169	169	0	1
##	170	170	0	3
##	171	171	0	1
##	172	172	0	3
##	174	174	0	3
##	175	175	0	1
##	176	176	0	3
##	177	177	0	3
##	178	178	0	1
##	179	179	0	2
##	180	180	0	3
##	181	181	0	3
##	182	182	0	2
				3
##	183	183	0	3

##	186	186	0	1
##	189	189	0	3
##	190	190	0	3
##	192	192	0	2
##	197	197	0	3
##	198	198	0	3
##	200	200	0	2
##	201	201	0	3
##	202	202	0	3
##	203	203	0	3
##	204	204	0	3
##	206	206	0	3
##	207	207	0	3
##	211	211	0	3
##	213	213	0	3
##	214	214	0	2
##	215	215	0	3
##	218	218	0	2
##	220	220	0	2
##	222	222	0	2
##	223	223	0	3
##	224	224	0	3
##	226	226	0	3
##	228	228	0	3
##	229	229	0	2
##	230	230	0	3
##	232	232	0	3
##	233	233	0	2
##	235	235	0	2
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##	467	467	0	2
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##	796	796	0	2
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##	814	814	0	3
##	815	815	0	3

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## 818
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## 819
                 819
                             0
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## 851
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## 864
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## 865
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## 868
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## 871
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## 873
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## 877
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## 882
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## 883
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## 885
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## 886
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                                     2
## 887
                 887
                             0
## 889
                 889
                             0
                                     3
## 891
                 891
                                     3
##
                                                                   Name
                                                                             Sex Age SibSp
## 1
                                              Braund, Mr. Owen Harris
                                                                           male 22.0
                                                                                           1
## 5
                                             Allen, Mr. William Henry
                                                                           male 35.0
                                                                                           0
## 6
                                                      Moran, Mr. James
                                                                           male
                                                                                   NA
                                                                                           0
## 7
                                              McCarthy, Mr. Timothy J
                                                                           male 54.0
                                                                                           0
## 8
                                      Palsson, Master. Gosta Leonard
                                                                           male 2.0
                                                                                           3
## 13
                                      Saundercock, Mr. William Henry
                                                                           male 20.0
```

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## 14
                                       Andersson, Mr. Anders Johan
                                                                      male 39.0
## 15
                             Vestrom, Miss. Hulda Amanda Adolfina female 14.0
                                                                                     0
                                                                      male 2.0
## 17
                                              Rice, Master. Eugene
## 19
         Vander Planke, Mrs. Julius (Emelia Maria Vandemoortele) female 31.0
                                                                                     1
## 21
                                              Fynney, Mr. Joseph J
                                                                      male 35.0
## 25
                                    Palsson, Miss. Torborg Danira female 8.0
                                                                                     3
## 27
                                           Emir, Mr. Farred Chehab
                                                                      male
                                                                              NA
## 28
                                   Fortune, Mr. Charles Alexander
                                                                      male 19.0
                                                                                     3
## 30
                                               Todoroff, Mr. Lalio
                                                                      male
                                                                              NA
                                                                                     Λ
## 31
                                          Uruchurtu, Don. Manuel E
                                                                      male 40.0
                                                                                     0
## 34
                                             Wheadon, Mr. Edward H
                                                                      male 66.0
                                                                                     0
## 35
                                           Meyer, Mr. Edgar Joseph
                                                                      male 28.0
                                                                                     1
## 36
                                   Holverson, Mr. Alexander Oskar
                                                                      male 42.0
                                                                                     1
                                                                      male 21.0
## 38
                                          Cann, Mr. Ernest Charles
                                                                                     0
## 39
                               Vander Planke, Miss. Augusta Maria female 18.0
                                                                                     2
## 41
                   Ahlin, Mrs. Johan (Johanna Persdotter Larsson) female 40.0
## 42
        Turpin, Mrs. William John Robert (Dorothy Ann Wonnacott) female 27.0
## 43
                                               Kraeff, Mr. Theodor
## 46
                                          Rogers, Mr. William John
                                                                      male
                                                                                     0
                                                                             NΑ
## 47
                                                 Lennon, Mr. Denis
                                                                      male
                                                                             NA
                                                                                     1
## 49
                                               Samaan, Mr. Youssef
                                                                      male
                                                                             NΑ
                                                                                     2
## 50
                    Arnold-Franchi, Mrs. Josef (Josefine Franchi) female 18.0
## 51
                                        Panula, Master. Juha Niilo
                                                                      male 7.0
## 52
                                     Nosworthy, Mr. Richard Cater
                                                                      male 21.0
                                   Ostby, Mr. Engelhart Cornelius
## 55
                                                                      male 65.0
                                                                                     0
## 58
                                               Novel, Mr. Mansouer
                                                                      male 28.5
                                                                                     0
## 60
                               Goodwin, Master. William Frederick
                                                                      male 11.0
                                                                                     5
## 61
                                             Sirayanian, Mr. Orsen
                                                                      male 22.0
                                                                                     0
## 63
                                       Harris, Mr. Henry Birkhardt
                                                                      male 45.0
                                                                                     1
## 64
                                             Skoog, Master. Harald
                                                                      male 4.0
                                                                                     3
## 65
                                             Stewart, Mr. Albert A
                                                                      male
                                                                              NA
                                                                                     0
## 68
                                          Crease, Mr. Ernest James
                                                                      male 19.0
                                                                                     0
## 70
                                                 Kink, Mr. Vincenz
                                                                      male 26.0
## 71
                                        Jenkin, Mr. Stephen Curnow
                                                                      male 32.0
                                                                                     0
## 72
                                        Goodwin, Miss. Lillian Amy female 16.0
                                                                                     5
## 73
                                              Hood, Mr. Ambrose Jr
                                                                      male 21.0
                                                                                     0
## 74
                                       Chronopoulos, Mr. Apostolos
                                                                      male 26.0
## 76
                                           Moen, Mr. Sigurd Hansen
                                                                      male 25.0
                                                                                     0
## 77
                                                 Staneff, Mr. Ivan
                                                                      male
## 78
                                          Moutal, Mr. Rahamin Haim
                                                                      male
                                                                             NΑ
                                                                                     0
## 81
                                              Waelens, Mr. Achille
                                                                      male 22.0
## 84
                                           Carrau, Mr. Francisco M
                                                                      male 28.0
                                                                                     0
## 87
                                            Ford, Mr. William Neal
                                                                      male 16.0
                                                                                     1
## 88
                                    Slocovski, Mr. Selman Francis
                                                                      male
                                                                                     0
                                                                             NA
## 90
                                            Celotti, Mr. Francesco
                                                                      male 24.0
## 91
                                              Christmann, Mr. Emil
                                                                      male 29.0
                                                                                     0
## 92
                                        Andreasson, Mr. Paul Edvin
                                                                      male 20.0
                                                                                     0
## 93
                                       Chaffee, Mr. Herbert Fuller
                                                                      male 46.0
## 94
                                           Dean, Mr. Bertram Frank
                                                                      male 26.0
                                                                                     1
## 95
                                                 Coxon, Mr. Daniel
                                                                      male 59.0
                                                                                     0
## 96
                                       Shorney, Mr. Charles Joseph
                                                                      male
                                                                             NA
                                                                                     0
## 97
                                         Goldschmidt, Mr. George B
                                                                      male 71.0
                                                                                     0
## 100
                                                 Kantor, Mr. Sinai
                                                                      male 34.0
                                                                                     1
## 101
                                           Petranec, Miss. Matilda female 28.0
```

```
## 102
                                 Petroff, Mr. Pastcho ("Pentcho")
                                                                      male
## 103
                                        White, Mr. Richard Frasar
                                                                      male 21.0
                                                                                    0
## 104
                                        Johansson, Mr. Gustaf Joel
                                                                      male 33.0
                                   Gustafsson, Mr. Anders Vilhelm
## 105
                                                                      male 37.0
                                                                                    2
## 106
                                            Mionoff, Mr. Stoytcho
                                                                      male 28.0
## 109
                                                   Rekic, Mr. Tido
                                                                      male 38.0
                                                                                    0
## 111
                                   Porter, Mr. Walter Chamberlain
                                                                      male 47.0
## 112
                                              Zabour, Miss. Hileni female 14.5
                                                                                    1
## 113
                                            Barton, Mr. David John
                                                                      male 22.0
                                                                                    Λ
## 114
                                           Jussila, Miss. Katriina female 20.0
## 115
                                             Attalah, Miss. Malake female 17.0
## 116
                                            Pekoniemi, Mr. Edvard
                                                                      male 21.0
                                                                                    0
## 117
                                              Connors, Mr. Patrick
                                                                      male 70.5
                                                                                    0
                                  Turpin, Mr. William John Robert
## 118
                                                                      male 29.0
## 119
                                         Baxter, Mr. Quigg Edmond
                                                                      male 24.0
## 120
                                Andersson, Miss. Ellis Anna Maria female 2.0
## 121
                                      Hickman, Mr. Stanley George
                                                                      male 21.0
                                                                                    2
## 122
                                       Moore, Mr. Leonard Charles
                                                                      male
## 123
                                              Nasser, Mr. Nicholas
                                                                      male 32.5
                                                                                    1
## 125
                                      White, Mr. Percival Wayland
                                                                      male 54.0
## 127
                                               McMahon, Mr. Martin
                                                                      male
                                                                             NΑ
                                                                                    0
## 130
                                                Ekstrom, Mr. Johan
                                                                      male 45.0
## 131
                                              Drazenoic, Mr. Jozef
                                                                      male 33.0
                                                                                    0
## 132
                                   Coelho, Mr. Domingos Fernandeo
                                                                      male 20.0
## 133
                  Robins, Mrs. Alexander A (Grace Charity Laury) female 47.0
## 135
                                   Sobey, Mr. Samuel James Hayden
                                                                      male 25.0
## 136
                                                Richard, Mr. Emile
                                                                      male 23.0
                                                                                    0
## 138
                                      Futrelle, Mr. Jacques Heath
                                                                      male 37.0
                                                                                    1
## 139
                                               Osen, Mr. Olaf Elon
                                                                      male 16.0
## 140
                                                Giglio, Mr. Victor
                                                                      male 24.0
## 141
                                    Boulos, Mrs. Joseph (Sultana) female
## 144
                                               Burke, Mr. Jeremiah
                                                                      male 19.0
                                                                                    0
## 145
                                        Andrew, Mr. Edgardo Samuel
                                                                      male 18.0
## 146
                                     Nicholls, Mr. Joseph Charles
                                                                      male 19.0
                                                                                    1
                                 Ford, Miss. Robina Maggie "Ruby" female 9.0
## 148
## 149
                        Navratil, Mr. Michel ("Louis M Hoffman")
                                                                      male 36.5
                                                                                    0
## 150
                                Byles, Rev. Thomas Roussel Davids
                                                                      male 42.0
## 151
                                       Bateman, Rev. Robert James
                                                                      male 51.0
                                                                                    0
## 153
                                                  Meo, Mr. Alfonzo
                                                                      male 55.5
## 154
                                  van Billiard, Mr. Austin Blyler
                                                                      male 40.5
                                                                                    0
## 155
                                            Olsen, Mr. Ole Martin
                                                                      male
                                                                             NA
## 156
                                      Williams, Mr. Charles Duane
                                                                      male 51.0
                                                                                    0
## 158
                                                   Corn, Mr. Harry
                                                                      male 30.0
                                                                                    0
## 159
                                                                      male
                                                                                    0
                                               Smiljanic, Mr. Mile
                                                                             NA
## 160
                                       Sage, Master. Thomas Henry
                                                                      male
                                                                             NA
## 161
                                         Cribb, Mr. John Hatfield
                                                                      male 44.0
                                                                                    0
## 163
                                       Bengtsson, Mr. John Viktor
                                                                      male 26.0
                                                                                    0
## 164
                                                   Calic, Mr. Jovo
                                                                      male 17.0
## 165
                                     Panula, Master. Eino Viljami
                                                                      male 1.0
                                                                                    4
## 168
                 Skoog, Mrs. William (Anna Bernhardina Karlsson) female 45.0
## 169
                                               Baumann, Mr. John D
                                                                      male
                                                                             NA
                                                                                    0
## 170
                                                     Ling, Mr. Lee
                                                                      male 28.0
## 171
                                        Van der hoef, Mr. Wyckoff
                                                                      male 61.0
                                                                                    0
## 172
                                              Rice, Master. Arthur
                                                                      male 4.0
```

```
## 174
                                         Sivola, Mr. Antti Wilhelm
                                                                      male 21.0
## 175
                                           Smith, Mr. James Clinch
                                                                      male 56.0
                                                                                     0
## 176
                                            Klasen, Mr. Klas Albin
                                                                      male 18.0
## 177
                                    Lefebre, Master. Henry Forbes
                                                                                     3
                                                                      male
                                                                              NA
                                        Isham, Miss. Ann Elizabeth female 50.0
## 178
## 179
                                                Hale, Mr. Reginald
                                                                      male 30.0
                                                                                     0
## 180
                                               Leonard, Mr. Lionel
                                                                      male 36.0
## 181
                                      Sage, Miss. Constance Gladys female
                                                                              NA
                                                                                     8
## 182
                                                  Pernot, Mr. Rene
                                                                      male
                                                                             NA
                                                                                     0
## 183
                            Asplund, Master. Clarence Gustaf Hugo
                                                                      male
                                                                            9.0
## 186
                                             Rood, Mr. Hugh Roscoe
                                                                      male
                                                                              NA
## 189
                                                                      male 40.0
                                                  Bourke, Mr. John
                                                                                     1
## 190
                                               Turcin, Mr. Stjepan
                                                                      male 36.0
                                                                                     0
## 192
                                                                      male 19.0
                                             Carbines, Mr. William
## 197
                                               Mernagh, Mr. Robert
                                                                      male
                                                                             NA
                                                                                     0
## 198
                                 Olsen, Mr. Karl Siegwart Andreas
                                                                      male 42.0
                                                                                     0
## 200
                           Yrois, Miss. Henriette ("Mrs Harbeck") female 24.0
                                                                                     0
## 201
                                   Vande Walle, Mr. Nestor Cyriel
                                                                      male 28.0
## 202
                                               Sage, Mr. Frederick
                                                                      male
                                                                             NA
                                                                                     8
## 203
                                        Johanson, Mr. Jakob Alfred
                                                                      male 34.0
                                                                                     0
## 204
                                              Youseff, Mr. Gerious
                                                                      male 45.5
                                                                                     Λ
## 206
                                        Strom, Miss. Telma Matilda female 2.0
## 207
                                                                      male 32.0
                                        Backstrom, Mr. Karl Alfred
                                                                                     1
## 211
                                                    Ali, Mr. Ahmed
                                                                      male 24.0
## 213
                                            Perkin, Mr. John Henry
                                                                      male 22.0
                                                                                     0
## 214
                                       Givard, Mr. Hans Kristensen
                                                                      male 30.0
                                                                                     0
## 215
                                               Kiernan, Mr. Philip
                                                                      male
                                                                             NA
                                                                                     1
## 218
                                      Jacobsohn, Mr. Sidney Samuel
                                                                      male 42.0
                                                                                     1
## 220
                                                                                     0
                                                Harris, Mr. Walter
                                                                      male 30.0
## 222
                                              Bracken, Mr. James H
                                                                      male 27.0
                                                                                     0
## 223
                                           Green, Mr. George Henry
                                                                      male 51.0
                                                                                     0
## 224
                                              Nenkoff, Mr. Christo
                                                                      male
                                                                              NA
                                                                                     0
## 226
                                     Berglund, Mr. Karl Ivar Sven
                                                                      male 22.0
## 228
                                  Lovell, Mr. John Hall ("Henry")
                                                                      male 20.5
                                                                                     0
## 229
                                         Fahlstrom, Mr. Arne Jonas
                                                                      male 18.0
                                                                                     0
## 230
                                           Lefebre, Miss. Mathilde female
                                                                             NA
                                                                                     3
## 232
                                          Larsson, Mr. Bengt Edvin
                                                                      male 29.0
## 233
                                         Sjostedt, Mr. Ernst Adolf
                                                                      male 59.0
                                                                                     0
## 235
                                Leyson, Mr. Robert William Norman
                                                                      male 24.0
## 236
                                     Harknett, Miss. Alice Phoebe female
                                                                                     0
                                                                              NA
## 237
                                                 Hold, Mr. Stephen
                                                                      male 44.0
                                  Pengelly, Mr. Frederick William
## 239
                                                                      male 19.0
                                                                                     0
## 240
                                            Hunt, Mr. George Henry
                                                                      male 33.0
                                                                                     0
## 241
                                             Zabour, Miss. Thamine female
                                                                             NA
                                                                                     1
## 243
                                  Coleridge, Mr. Reginald Charles
                                                                      male 29.0
## 244
                                     Maenpaa, Mr. Matti Alexanteri
                                                                      male 22.0
                                                                                     0
## 245
                                              Attalah, Mr. Sleiman
                                                                      male 30.0
                                                                                     0
## 246
                                                                                     2
                                       Minahan, Dr. William Edward
                                                                      male 44.0
## 247
                            Lindahl, Miss. Agda Thorilda Viktoria female 25.0
                                                                                     0
## 250
                                    Carter, Rev. Ernest Courtenay
                                                                      male 54.0
                                                                                     1
## 251
                                            Reed, Mr. James George
                                                                      male
                                                                             NA
                                                                                     0
## 252
                       Strom, Mrs. Wilhelm (Elna Matilda Persson) female 29.0
                                                                                     1
## 253
                                         Stead, Mr. William Thomas
                                                                      male 62.0
                                                                                     0
## 254
                                          Lobb, Mr. William Arthur
                                                                      male 30.0
```

```
## 255
                         Rosblom, Mrs. Viktor (Helena Wilhelmina) female 41.0
## 261
                                                 Smith, Mr. Thomas
                                                                      male
                                                                             NA
                                                                                     0
## 263
                                                 Taussig, Mr. Emil
                                                                      male 52.0
                                             Harrison, Mr. William
## 264
                                                                      male 40.0
                                                                                     0
## 265
                                                Henry, Miss. Delia female
                                                                             NA
## 266
                                                 Reeves, Mr. David
                                                                      male 36.0
                                                                                     0
## 267
                                         Panula, Mr. Ernesti Arvid
                                                                      male 16.0
## 271
                                             Cairns, Mr. Alexander
                                                                      male
                                                                              NA
                                                                                     0
## 274
                                             Natsch, Mr. Charles H
                                                                      male 37.0
                                                                                     0
## 277
                                Lindblom, Miss. Augusta Charlotta female 45.0
                                                                                     0
## 278
                                       Parkes, Mr. Francis "Frank"
                                                                      male
                                                                              NA
## 279
                                                Rice, Master. Eric
                                                                      male 7.0
                                                                                     4
## 281
                                                  Duane, Mr. Frank
                                                                      male 65.0
                                                                                     0
## 282
                                                                      male 28.0
                                 Olsson, Mr. Nils Johan Goransson
## 283
                                         de Pelsmaeker, Mr. Alfons
                                                                      male 16.0
                                                                                     0
## 285
                                        Smith, Mr. Richard William
                                                                      male
                                                                              NA
                                                                                     0
## 286
                                               Stankovic, Mr. Ivan
                                                                      male 33.0
                                                                                     0
## 288
                                              Naidenoff, Mr. Penko
                                                                      male 22.0
## 293
                                            Levy, Mr. Rene Jacques
                                                                      male 36.0
                                                                                     0
## 294
                                               Haas, Miss. Aloisia female 24.0
## 295
                                                  Mineff, Mr. Ivan
                                                                      male 24.0
                                                                                     0
## 296
                                                 Lewy, Mr. Ervin G
                                                                      male
                                                                              NA
## 297
                                                Hanna, Mr. Mansour
                                                                      male 23.5
                                                                                     0
                                     Allison, Miss. Helen Loraine female 2.0
## 298
## 303
                                                                      male 19.0
                                  Johnson, Mr. William Cahoone Jr
## 305
                                Williams, Mr. Howard Hugh "Harry"
                                                                      male
                                                                              NA
                                                                                     0
## 309
                                               Abelson, Mr. Samuel
                                                                      male 30.0
                                                                                     1
## 313
                            Lahtinen, Mrs. William (Anna Sylfven) female 26.0
                                                                                     1
## 314
                                            Hendekovic, Mr. Ignjac
                                                                      male 28.0
## 315
                                                Hart, Mr. Benjamin
                                                                      male 43.0
                                                                                     1
## 318
                                              Moraweck, Dr. Ernest
                                                                      male 54.0
                                                                                     0
## 321
                                                Dennis, Mr. Samuel
                                                                      male 22.0
                                                                                     0
## 322
                                                  Danoff, Mr. Yoto
                                                                      male 27.0
                                                                                     0
## 325
                                          Sage, Mr. George John Jr
                                                                      male
                                                                             NA
                                                                                     8
## 327
                                         Nysveen, Mr. Johan Hansen
                                                                      male 61.0
                                                                                     0
                                               Partner, Mr. Austen
                                                                      male 45.5
## 332
                                                                                     0
## 333
                                         Graham, Mr. George Edward
                                                                      male 38.0
## 334
                                  Vander Planke, Mr. Leo Edmondus
                                                                      male 16.0
                                                                                     2
## 336
                                                Denkoff, Mr. Mitto
                                                                      male
                                                                              NA
## 337
                                         Pears, Mr. Thomas Clinton
                                                                      male 29.0
## 340
                                     Blackwell, Mr. Stephen Weart
                                                                      male 45.0
## 343
                                        Collander, Mr. Erik Gustaf
                                                                      male 28.0
                                                                                     0
## 344
                       Sedgwick, Mr. Charles Frederick Waddington
                                                                      male 25.0
                                                                                     0
## 345
                                           Fox, Mr. Stanley Hubert
                                                                      male 36.0
                                                                                     0
## 350
                                                  Dimic, Mr. Jovan
                                                                      male 42.0
## 351
                                            Odahl, Mr. Nils Martin
                                                                      male 23.0
                                                                                     0
## 352
                           Williams-Lambert, Mr. Fletcher Fellows
                                                                      male
                                                                              NA
                                                                                     0
## 353
                                                Elias, Mr. Tannous
                                                                      male 15.0
## 354
                                         Arnold-Franchi, Mr. Josef
                                                                      male 25.0
                                                                                     1
                                                 Yousif, Mr. Wazli
## 355
                                                                      male
                                                                              NA
                                                                                     0
## 356
                                       Vanden Steen, Mr. Leo Peter
                                                                      male 28.0
                                                                                     0
## 358
                                         Funk, Miss. Annie Clemmer female 38.0
## 361
                                                Skoog, Mr. Wilhelm
                                                                      male 40.0
                                                                                     1
## 362
                                         del Carlo, Mr. Sebastiano
                                                                      male 29.0
```

```
## 363
                                  Barbara, Mrs. (Catherine David) female 45.0
## 364
                                                   Asim, Mr. Adola
                                                                      male 35.0
                                                                                     0
                                               O'Brien, Mr. Thomas
## 365
                                                                      male
## 366
                                   Adahl, Mr. Mauritz Nils Martin
                                                                      male 30.0
                                                                                     0
## 372
                                         Wiklund, Mr. Jakob Alfred
                                                                      male 18.0
                                                                                     1
## 373
                                        Beavan, Mr. William Thomas
                                                                      male 19.0
                                                                                     0
## 374
                                               Ringhini, Mr. Sante
                                                                      male 22.0
## 375
                                        Palsson, Miss. Stina Viola female 3.0
                                                                                     3
## 378
                                         Widener, Mr. Harry Elkins
                                                                      male 27.0
                                                                                     0
## 379
                                               Betros, Mr. Tannous
                                                                      male 20.0
                                                                                     0
## 380
                                       Gustafsson, Mr. Karl Gideon
                                                                      male 19.0
                                                                                     0
                                                Tikkanen, Mr. Juho
## 383
                                                                      male 32.0
                                                                                     0
## 385
                                            Plotcharsky, Mr. Vasil
                                                                      male
                                                                                     0
                                                                              NA
## 386
                                         Davies, Mr. Charles Henry
                                                                      male 18.0
                                                                                     0
## 387
                                  Goodwin, Master. Sidney Leonard
                                                                                     5
                                                                      male
                                                                            1.0
## 389
                                              Sadlier, Mr. Matthew
                                                                      male
                                                                              NA
                                                                                     0
## 393
                                                                                     2
                                      Gustafsson, Mr. Johan Birger
                                                                      male 28.0
## 396
                                               Johansson, Mr. Erik
                                                                      male 22.0
## 397
                                               Olsson, Miss. Elina female 31.0
                                                                                     0
## 398
                                           McKane, Mr. Peter David
                                                                      male 46.0
                                                                                     0
## 399
                                                  Pain, Dr. Alfred
                                                                      male 23.0
                                                                                     Λ
## 402
                                                   Adams, Mr. John
                                                                      male 26.0
## 403
                                          Jussila, Miss. Mari Aina female 21.0
                                                                                     1
## 404
                                   Hakkarainen, Mr. Pekka Pietari
                                                                      male 28.0
                                                                                     1
## 405
                                           Oreskovic, Miss. Marija female 20.0
                                                                                     0
## 406
                                                Gale, Mr. Shadrach
                                                                      male 34.0
                                                                                     1
## 407
                                 Widegren, Mr. Carl/Charles Peter
                                                                      male 51.0
                                                                                     0
                                Birkeland, Mr. Hans Martin Monsen
## 409
                                                                      male 21.0
                                                                                     0
## 410
                                                                                     3
                                                Lefebre, Miss. Ida female
## 411
                                                Sdycoff, Mr. Todor
                                                                      male
                                                                                     0
                                                                              NA
## 412
                                                   Hart, Mr. Henry
                                                                      male
                                                                              NA
                                                                                     0
## 414
                                   Cunningham, Mr. Alfred Fleming
                                                                              NΑ
                                                                                     0
                                                                      male
## 416
                          Meek, Mrs. Thomas (Annie Louise Rowley) female
                                                                                     0
## 419
                                                                      male 30.0
                                        Matthews, Mr. William John
                                                                                     0
## 420
                                         Van Impe, Miss. Catharina female 10.0
                                                                                     0
## 421
                                            Gheorgheff, Mr. Stanio
                                                                      male
                                                                              NA
                                                                                     0
## 422
                                               Charters, Mr. David
                                                                      male 21.0
## 423
                                                Zimmerman, Mr. Leo
                                                                      male 29.0
                                                                                     0
## 424
          Danbom, Mrs. Ernst Gilbert (Anna Sigrid Maria Brogren) female 28.0
## 425
                                       Rosblom, Mr. Viktor Richard
                                                                      male 18.0
## 426
                                            Wiseman, Mr. Phillippe
                                                                      male
                                                                              NΑ
## 429
                                                  Flynn, Mr. James
                                                                              NA
                                                                                     0
                                                                      male
## 434
                                        Kallio, Mr. Nikolai Erland
                                                                      male 17.0
                                                                                     0
## 435
                                         Silvey, Mr. William Baird
                                                                      male 50.0
                                                                                     1
## 437
                             Ford, Miss. Doolina Margaret "Daisy" female 21.0
                                                                                     2
## 439
                                                 Fortune, Mr. Mark
                                                                      male 64.0
                                                                                     1
## 440
                           Kvillner, Mr. Johan Henrik Johannesson
                                                                      male 31.0
                                                                                     0
## 442
                                                                      male 20.0
                                                   Hampe, Mr. Leon
                                                                                     0
## 443
                                         Petterson, Mr. Johan Emil
                                                                      male 25.0
                                                                                     1
## 451
                                             West, Mr. Edwy Arthur
                                                                      male 36.0
                                                                                     1
## 452
                                  Hagland, Mr. Ingvald Olai Olsen
                                                                      male
                                                                              NA
                                                                                     1
## 453
                                  Foreman, Mr. Benjamin Laventall
                                                                      male 30.0
                                                                                     0
## 455
                                               Peduzzi, Mr. Joseph
                                                                      male
                                                                                     0
                                                                              NΑ
## 457
                                         Millet, Mr. Francis Davis
                                                                      male 65.0
```

```
## 460
                                             O'Connor, Mr. Maurice
                                                                      male
## 462
                                               Morley, Mr. William
                                                                      male 34.0
                                                                                     0
## 463
                                                 Gee, Mr. Arthur H
                                                                      male 47.0
## 464
                                     Milling, Mr. Jacob Christian
                                                                      male 48.0
                                                                                     0
## 465
                                                Maisner, Mr. Simon
                                                                      male
                                                                             NA
## 466
                                  Goncalves, Mr. Manuel Estanslas
                                                                      male 38.0
                                                                                     0
## 467
                                             Campbell, Mr. William
                                                                      male
                                                                             NA
## 468
                                        Smart, Mr. John Montgomery
                                                                      male 56.0
                                                                                     0
## 469
                                                Scanlan, Mr. James
                                                                      male
                                                                             NA
                                                                                     0
## 471
                                                 Keefe, Mr. Arthur
                                                                      male
                                                                             NA
                                                                                     0
## 472
                                                   Cacic, Mr. Luka
                                                                      male 38.0
## 475
                                      Strandberg, Miss. Ida Sofia female 22.0
                                                                                     0
## 476
                                      Clifford, Mr. George Quincy
                                                                                     0
                                                                      male
                                                                             NA
## 477
                                           Renouf, Mr. Peter Henry
                                                                      male 34.0
## 478
                                         Braund, Mr. Lewis Richard
                                                                      male 29.0
## 479
                                         Karlsson, Mr. Nils August
                                                                      male 22.0
                                                                                     0
## 481
                                   Goodwin, Master. Harold Victor
                                                                      male 9.0
                                                                                     5
## 482
                                 Frost, Mr. Anthony Wood "Archie"
                                                                      male
## 483
                                         Rouse, Mr. Richard Henry
                                                                      male 50.0
                                                                                     0
## 486
                                            Lefebre, Miss. Jeannie female
                                                                                     3
## 488
                                           Kent, Mr. Edward Austin
                                                                      male 58.0
                                                                                     0
## 489
                                    Somerton, Mr. Francis William
                                                                      male 30.0
## 491
                             Hagland, Mr. Konrad Mathias Reiersen
                                                                      male
                                                                             NΑ
                                                                                     1
## 492
                                               Windelov, Mr. Einar
                                                                      male 21.0
## 493
                                       Molson, Mr. Harry Markland
                                                                      male 55.0
## 494
                                           Artagaveytia, Mr. Ramon
                                                                      male 71.0
## 495
                                        Stanley, Mr. Edward Roland
                                                                      male 21.0
                                                                                     0
                                             Yousseff, Mr. Gerious
## 496
                                                                      male
                                                                             NA
                                                                                     0
## 498
                                  Shellard, Mr. Frederick William
                                                                      male
                                                                             NA
## 499
                 Allison, Mrs. Hudson J C (Bessie Waldo Daniels) female 25.0
## 500
                                                Svensson, Mr. Olof
                                                                      male 24.0
## 501
                                                  Calic, Mr. Petar
                                                                      male 17.0
                                                                                     0
## 502
                                               Canavan, Miss. Mary female 21.0
## 503
                                   O'Sullivan, Miss. Bridget Mary female
                                                                                     0
## 504
                                   Laitinen, Miss. Kristina Sofia female 37.0
## 506
                      Penasco y Castellana, Mr. Victor de Satode
                                                                      male 18.0
## 509
                                          Olsen, Mr. Henry Margido
                                                                      male 28.0
## 512
                                                 Webber, Mr. James
                                                                      male
                                                                             NΑ
                                                                                     0
## 515
                                                 Coleff, Mr. Satio
                                                                      male 24.0
## 516
                                     Walker, Mr. William Anderson
                                                                      male 47.0
## 518
                                                 Ryan, Mr. Patrick
                                                                      male
                                                                             NA
## 520
                                               Pavlovic, Mr. Stefo
                                                                      male 32.0
                                                                                     0
## 522
                                                   Vovk, Mr. Janko
                                                                      male 22.0
                                                                                     0
## 523
                                                Lahoud, Mr. Sarkis
                                                                      male
                                                                                     0
                                                                             NA
## 525
                                                 Kassem, Mr. Fared
                                                                      male
                                                                             NA
                                                Farrell, Mr. James
## 526
                                                                      male 40.5
                                                                                     0
## 528
                                                Farthing, Mr. John
                                                                      male
                                                                             NA
                                                                                     0
## 529
                                         Salonen, Mr. Johan Werner
                                                                      male 39.0
                                                                                     0
## 530
                                      Hocking, Mr. Richard George
                                                                      male 23.0
                                                                                     2
## 532
                                                 Toufik, Mr. Nakli
                                                                      male
                                                                             NA
                                                                                     0
## 533
                                              Elias, Mr. Joseph Jr
                                                                      male 17.0
                                                                                     1
## 535
                                               Cacic, Miss. Marija female 30.0
## 537
                                Butt, Major. Archibald Willingham
                                                                      male 45.0
                                                                                     0
## 539
                                          Risien, Mr. Samuel Beard
                                                                      male
```

```
## 542
                             Andersson, Miss. Ingeborg Constanzia female 9.0
## 543
                                Andersson, Miss. Sigrid Elisabeth female 11.0
                                                                                     4
## 545
                                        Douglas, Mr. Walter Donald
                                                                      male 50.0
## 546
                                     Nicholson, Mr. Arthur Ernest
                                                                      male 64.0
                                                                                     0
## 549
                                         Goldsmith, Mr. Frank John
                                                                      male 33.0
                                                                                     1
## 552
                                      Sharp, Mr. Percival James R
                                                                      male 27.0
## 553
                                              O'Brien, Mr. Timothy
                                                                      male
                                                                             NA
                                                Wright, Mr. George
## 556
                                                                      male 62.0
                                                                                     0
## 558
                                               Robbins, Mr. Victor
                                                                      male
                                                                             NA
                                                                                     0
## 561
                                          Morrow, Mr. Thomas Rowan
                                                                      male
                                                                             NA
                                                                                     0
## 562
                                                 Sivic, Mr. Husein
                                                                      male 40.0
                                                                                     0
## 563
                                                                      male 28.0
                                        Norman, Mr. Robert Douglas
                                                                                     0
## 564
                                                 Simmons, Mr. John
                                                                                     0
                                                                      male
                                                                             NA
## 565
                                   Meanwell, Miss. (Marion Ogden) female
## 566
                                              Davies, Mr. Alfred J
                                                                                     2
                                                                      male 24.0
## 567
                                              Stoytcheff, Mr. Ilia
                                                                      male 19.0
## 568
                      Palsson, Mrs. Nils (Alma Cornelia Berglund) female 29.0
                                                                                     0
## 569
                                               Doharr, Mr. Tannous
## 575
                                     Rush, Mr. Alfred George John
                                                                      male 16.0
                                                                                     0
## 576
                                              Patchett, Mr. George
                                                                      male 19.0
## 579
                                 Caram, Mrs. Joseph (Maria Elias) female
                                                                             NA
## 583
                                        Downton, Mr. William James
                                                                      male 54.0
## 584
                                               Ross, Mr. John Hugo
                                                                      male 36.0
                                                                                     0
## 585
                                               Paulner, Mr. Uscher
                                                                      male
                                                                             NA
                                                                                     0
                                           Jarvis, Mr. John Denzil
## 587
                                                                      male 47.0
                                                                                     0
## 589
                                             Gilinski, Mr. Eliezer
                                                                      male 22.0
                                                                                     0
## 590
                                               Murdlin, Mr. Joseph
                                                                                     0
                                                                      male
                                                                             NA
                                              Rintamaki, Mr. Matti
## 591
                                                                      male 35.0
                                                                                     0
## 593
                                        Elsbury, Mr. William James
                                                                      male 47.0
## 594
                                                Bourke, Miss. Mary female
                                                                                     0
                                                                             NA
## 595
                                           Chapman, Mr. John Henry
                                                                      male 37.0
## 596
                                      Van Impe, Mr. Jean Baptiste
                                                                      male 36.0
## 598
                                               Johnson, Mr. Alfred
                                                                      male 49.0
## 599
                                                 Boulos, Mr. Hanna
                                                                      male
                                                                             NA
                                                                                     0
## 602
                                              Slabenoff, Mr. Petco
                                                                             NA
                                                                                     0
                                                                      male
## 603
                                         Harrington, Mr. Charles H
                                                                      male
                                                                             NA
                                                                                     0
## 604
                                         Torber, Mr. Ernst William
                                                                      male 44.0
## 606
                                    Lindell, Mr. Edvard Bengtsson
                                                                      male 36.0
## 607
                                                 Karaic, Mr. Milan
                                                                      male 30.0
## 611 Andersson, Mrs. Anders Johan (Alfrida Konstantia Brogren) female 39.0
                                             Jardin, Mr. Jose Neto
                                                                      male
                                                                             NA
## 614
                                                  Horgan, Mr. John
                                                                                     0
                                                                      male
                                                                             NΑ
## 615
                                  Brocklebank, Mr. William Alfred
                                                                      male 35.0
                                                                                     0
## 617
                                         Danbom, Mr. Ernst Gilbert
                                                                      male 34.0
## 618
                 Lobb, Mrs. William Arthur (Cordelia K Stanlick) female 26.0
                                                                                     1
## 620
                                                                      male 26.0
                                               Gavey, Mr. Lawrence
                                                                                     0
## 621
                                               Yasbeck, Mr. Antoni
                                                                      male 27.0
                                                                                     1
## 624
                                      Hansen, Mr. Henry Damsgaard
                                                                      male 21.0
## 625
                                      Bowen, Mr. David John "Dai"
                                                                      male 21.0
                                                                                     0
## 626
                                             Sutton, Mr. Frederick
                                                                      male 61.0
                                                                                     0
## 627
                                   Kirkland, Rev. Charles Leonard
                                                                      male 57.0
                                                                                     0
## 629
                                         Bostandyeff, Mr. Guentcho
                                                                      male 26.0
## 630
                                          O'Connell, Mr. Patrick D
                                                                      male
                                                                                     0
                                                                             NA
## 632
                                      Lundahl, Mr. Johan Svensson
                                                                      male 51.0
```

```
## 634
                                    Parr, Mr. William Henry Marsh
                                                                      male
## 635
                                                Skoog, Miss. Mabel female 9.0
                                                                                     3
## 637
                                       Leinonen, Mr. Antti Gustaf
                                                                      male 32.0
## 638
                                               Collyer, Mr. Harvey
                                                                      male 31.0
                                                                                     1
## 639
                           Panula, Mrs. Juha (Maria Emilia Ojala) female 41.0
## 640
                                       Thorneycroft, Mr. Percival
                                                                      male
                                                                             NA
                                            Jensen, Mr. Hans Peder
## 641
                                                                      male 20.0
## 643
                                    Skoog, Miss. Margit Elizabeth female 2.0
                                                                                     3
## 647
                                                 Cor, Mr. Liudevit
                                                                      male 19.0
                                                                                     Λ
## 649
                                                Willey, Mr. Edward
                                                                      male
                                                                                     0
## 651
                                                 Mitkoff, Mr. Mito
                                                                      male
                                                                             NA
                                                                                     0
## 653
                                   Kalvik, Mr. Johannes Halvorsen
                                                                      male 21.0
                                                                                     0
## 655
                                     Hegarty, Miss. Hanora "Nora" female 18.0
                                                                                     0
## 656
                                                                                     2
                                         Hickman, Mr. Leonard Mark
                                                                      male 24.0
## 657
                                             Radeff, Mr. Alexander
                                                                      male
                                                                             NΑ
                                                                                     0
## 658
                                    Bourke, Mrs. John (Catherine) female 32.0
## 659
                                     Eitemiller, Mr. George Floyd
                                                                      male 23.0
                                                                                     0
## 660
                                       Newell, Mr. Arthur Webster
                                                                      male 58.0
                                                 Badt, Mr. Mohamed
## 662
                                                                      male 40.0
                                                                                     0
## 663
                                       Colley, Mr. Edward Pomeroy
                                                                      male 47.0
                                                                                     0
## 664
                                                  Coleff, Mr. Peju
                                                                      male 36.0
                                                                                     0
## 666
                                                Hickman, Mr. Lewis
                                                                      male 32.0
## 667
                                      Butler, Mr. Reginald Fenton
                                                                      male 25.0
                                                                                     0
## 668
                                       Rommetvedt, Mr. Knud Paust
                                                                      male
                                                                             NA
## 669
                                                   Cook, Mr. Jacob
                                                                      male 43.0
                                                                                     0
## 672
                                            Davidson, Mr. Thornton
                                                                      male 31.0
                                                                                     1
## 673
                                      Mitchell, Mr. Henry Michael
                                                                      male 70.0
                                                                                     0
## 675
                                       Watson, Mr. Ennis Hastings
                                                                      male
                                                                             NA
                                                                                     0
## 676
                                   Edvardsson, Mr. Gustaf Hjalmar
                                                                      male 18.0
                                                                                     0
## 677
                                    Sawyer, Mr. Frederick Charles
                                                                      male 24.5
## 679
                          Goodwin, Mrs. Frederick (Augusta Tyler) female 43.0
                                               Peters, Miss. Katie female
## 681
                                                                                     0
## 683
                                      Olsvigen, Mr. Thor Anderson
                                                                      male 20.0
                                                                                     0
## 684
                                      Goodwin, Mr. Charles Edward
                                                                      male 14.0
                                                                                     5
## 685
                                Brown, Mr. Thomas William Solomon
                                                                      male 60.0
                                                                                     1
## 686
                           Laroche, Mr. Joseph Philippe Lemercier
                                                                      male 25.0
## 687
                                         Panula, Mr. Jaako Arnold
                                                                      male 14.0
## 688
                                                 Dakic, Mr. Branko
                                                                      male 19.0
                                                                                     0
## 689
                                  Fischer, Mr. Eberhard Thelander
                                                                      male 18.0
## 694
                                                  Saad, Mr. Khalil
                                                                                     0
                                                                      male 25.0
## 695
                                                   Weir, Col. John
                                                                      male 60.0
## 696
                                       Chapman, Mr. Charles Henry
                                                                      male 52.0
                                                                                     0
## 697
                                                                      male 44.0
                                                  Kelly, Mr. James
                                                                                     0
## 699
                                          Thayer, Mr. John Borland
                                                                      male 49.0
                                                                                     1
## 700
                         Humblen, Mr. Adolf Mathias Nicolai Olsen
                                                                      male 42.0
## 703
                                             Barbara, Miss. Saiide female 18.0
                                                                                     0
## 704
                                             Gallagher, Mr. Martin
                                                                      male 25.0
                                                                                     0
## 705
                                           Hansen, Mr. Henrik Juul
                                                                      male 26.0
## 706
                  Morley, Mr. Henry Samuel ("Mr Henry Marshall")
                                                                      male 39.0
                                                                                     0
## 712
                                                Klaber, Mr. Herman
                                                                      male
                                                                             NA
                                                                                     0
## 714
                                                                      male 29.0
                                                                                     0
                                       Larsson, Mr. August Viktor
## 715
                                             Greenberg, Mr. Samuel
                                                                      male 52.0
## 716
                      Soholt, Mr. Peter Andreas Lauritz Andersen
                                                                      male 19.0
                                                                                     0
## 719
                                               McEvoy, Mr. Michael
                                                                      male
                                                                             NA
```

```
## 720
                                      Johnson, Mr. Malkolm Joackim
                                                                      male 33.0
## 722
                                         Jensen, Mr. Svend Lauritz
                                                                      male 17.0
                                                                                     1
                                     Gillespie, Mr. William Henry
                                                                      male 34.0
## 723
                                                                                     0
## 724
                                           Hodges, Mr. Henry Price
                                                                      male 50.0
                                                                                     0
## 726
                                               Oreskovic, Mr. Luka
                                                                      male 20.0
## 729
                                  Bryhl, Mr. Kurt Arnold Gottfrid
                                                                      male 25.0
## 730
                                     Ilmakangas, Miss. Pieta Sofia female 25.0
## 732
                                          Hassan, Mr. Houssein G N
                                                                      male 11.0
                                                                                     0
## 733
                                              Knight, Mr. Robert J
                                                                      male
                                                                             NA
                                                                                     Λ
## 734
                                        Berriman, Mr. William John
                                                                      male 23.0
                                                                                     0
## 735
                                     Troupiansky, Mr. Moses Aaron
                                                                      male 23.0
## 736
                                                                      male 28.5
                                              Williams, Mr. Leslie
                                                                                     0
## 737
                          Ford, Mrs. Edward (Margaret Ann Watson) female 48.0
                                                                                     1
## 739
                                                Ivanoff, Mr. Kanio
                                                                      male
## 740
                                                Nankoff, Mr. Minko
                                                                                     0
                                                                      male
                                                                              NΑ
## 742
                                     Cavendish, Mr. Tyrell William
                                                                      male 36.0
## 744
                                                 McNamee, Mr. Neal
                                                                      male 24.0
## 746
                                     Crosby, Capt. Edward Gifford
                                                                      male 70.0
## 747
                                       Abbott, Mr. Rossmore Edward
                                                                      male 16.0
                                                                                     1
## 749
                                         Marvin, Mr. Daniel Warner
                                                                      male 19.0
## 750
                                           Connaghton, Mr. Michael
                                                                      male 31.0
                                                                                     0
## 753
                                 Vande Velde, Mr. Johannes Joseph
                                                                      male 33.0
## 754
                                                Jonkoff, Mr. Lalio
                                                                      male 23.0
                                                                                     0
## 757
                                     Carlsson, Mr. August Sigfrid
                                                                      male 28.0
## 758
                                          Bailey, Mr. Percy Andrew
                                                                      male 18.0
                                                                                     0
## 759
                                     Theobald, Mr. Thomas Leonard
                                                                      male 34.0
                                                                                     0
## 761
                                                Garfirth, Mr. John
                                                                      male
                                                                             NA
                                                                                     0
## 762
                                   Nirva, Mr. Iisakki Antino Aijo
                                                                      male 41.0
                                                                                     0
## 765
                                                                      male 16.0
                                            Eklund, Mr. Hans Linus
## 767
                                         Brewe, Dr. Arthur Jackson
                                                                      male
                                                                                     0
                                                                              NA
## 768
                                                Mangan, Miss. Mary female 30.5
                                                                                     0
## 769
                                               Moran, Mr. Daniel J
                                                                      male
                                                                              NΑ
                                                                                     1
## 770
                                 Gronnestad, Mr. Daniel Danielsen
                                                                      male 32.0
## 771
                                            Lievens, Mr. Rene Aime
                                                                      male 24.0
                                                                                     0
## 772
                                           Jensen, Mr. Niels Peder
                                                                      male 48.0
## 773
                                                 Mack, Mrs. (Mary) female 57.0
                                                                                     0
## 774
                                                   Elias, Mr. Dibo
                                                                      male
## 776
                          Myhrman, Mr. Pehr Fabian Oliver Malkolm
                                                                      male 18.0
                                                                                     0
## 777
                                                  Tobin, Mr. Roger
                                                                      male
## 779
                                                                      male
                                                                                     0
                                           Kilgannon, Mr. Thomas J
                                                                              NΑ
## 783
                                            Long, Mr. Milton Clyde
                                                                      male 29.0
## 784
                                            Johnston, Mr. Andrew G
                                                                      male
                                                                              NA
                                                                                     1
## 785
                                                  Ali, Mr. William
                                                                      male 25.0
                                                                                     0
## 786
                               Harmer, Mr. Abraham (David Lishin)
                                                                      male 25.0
                                                                                     0
## 788
                                         Rice, Master. George Hugh
                                                                      male 8.0
## 790
                                          Guggenheim, Mr. Benjamin
                                                                      male 46.0
                                                                                     0
## 791
                                          Keane, Mr. Andrew "Andy"
                                                                      male
                                                                              NA
                                                                                     0
## 792
                                               Gaskell, Mr. Alfred
                                                                      male 16.0
                                                                                     0
                                           Sage, Miss. Stella Anna female
## 793
                                                                              NΑ
                                                                                     8
## 794
                                          Hoyt, Mr. William Fisher
                                                                      male
                                                                              NA
                                                                                     0
                                             Dantcheff, Mr. Ristiu
## 795
                                                                      male 25.0
                                                                                     0
## 796
                                                Otter, Mr. Richard
                                                                      male 39.0
## 799
                                     Ibrahim Shawah, Mr. Yousseff
                                                                      male 30.0
                                                                                     0
## 800
            Van Impe, Mrs. Jean Baptiste (Rosalie Paula Govaert) female 30.0
```

```
## 801
                                              Ponesell, Mr. Martin
                                                                      male 34.0
## 806
                                         Johansson, Mr. Karl Johan
                                                                      male 31.0
                                                                                     0
                                                                      male 39.0
## 807
                                            Andrews, Mr. Thomas Jr
## 808
                                  Pettersson, Miss. Ellen Natalia female 18.0
                                                                                     0
## 809
                                                 Meyer, Mr. August
                                                                      male 39.0
## 811
                                            Alexander, Mr. William
                                                                      male 26.0
                                                                                     0
                                                 Lester, Mr. James
## 812
                                                                      male 39.0
## 813
                                         Slemen, Mr. Richard James
                                                                      male 35.0
                                                                                     0
## 814
                               Andersson, Miss. Ebba Iris Alfrida female 6.0
## 815
                                       Tomlin, Mr. Ernest Portage
                                                                      male 30.5
## 816
                                                  Fry, Mr. Richard
                                                                      male
                                                                             NA
## 817
                                     Heininen, Miss. Wendla Maria female 23.0
                                                                                     0
## 818
                                                Mallet, Mr. Albert
                                                                      male 31.0
                                                                                     1
## 819
                                 Holm, Mr. John Fredrik Alexander
                                                                      male 43.0
## 820
                                     Skoog, Master. Karl Thorsten
                                                                      male 10.0
                                                                                     3
## 823
                                  Reuchlin, Jonkheer. John George
                                                                      male 38.0
                                                                                     0
## 825
                                     Panula, Master. Urho Abraham
                                                                      male 2.0
                                                                                     4
## 826
                                                   Flynn, Mr. John
                                                                      male
                                                      Lam, Mr. Len
## 827
                                                                      male
                                                                             NΑ
                                                                                     0
## 833
                                                    Saad, Mr. Amin
                                                                      male
                                                                             NA
                                                                                     0
## 834
                                            Augustsson, Mr. Albert
                                                                      male 23.0
                                                                                     Λ
## 835
                                            Allum, Mr. Owen George
                                                                      male 18.0
## 837
                                                  Pasic, Mr. Jakob
                                                                      male 21.0
                                                                                     0
## 838
                                               Sirota, Mr. Maurice
                                                                      male
                                                                             NA
## 841
                                      Alhomaki, Mr. Ilmari Rudolf
                                                                      male 20.0
                                                                                     0
## 842
                                         Mudd, Mr. Thomas Charles
                                                                      male 16.0
                                                                                     0
## 844
                                       Lemberopolous, Mr. Peter L
                                                                      male 34.5
                                                                                     0
## 845
                                               Culumovic, Mr. Jeso
                                                                      male 17.0
                                                                                     0
## 846
                                               Abbing, Mr. Anthony
                                                                      male 42.0
                                                                                     0
## 847
                                          Sage, Mr. Douglas Bullen
                                                                      male
                                                                             NA
## 848
                                                Markoff, Mr. Marin
                                                                      male 35.0
                                                                                     0
## 849
                                                 Harper, Rev. John
                                                                      male 28.0
                                                                                     0
## 851
                          Andersson, Master. Sigvard Harald Elias
                                                                      male 4.0
## 852
                                               Svensson, Mr. Johan
                                                                      male 74.0
                                                                                     0
## 853
                                           Boulos, Miss. Nourelain female
## 855
                   Carter, Mrs. Ernest Courtenay (Lilian Hughes) female 44.0
## 860
                                                  Razi, Mr. Raihed
                                                                      male
## 861
                                           Hansen, Mr. Claus Peter
                                                                      male 41.0
                                                                                     2
## 862
                                      Giles, Mr. Frederick Edward
                                                                      male 21.0
## 864
                                Sage, Miss. Dorothy Edith "Dolly" female
                                                                                     8
                                                                             NA
## 865
                                            Gill, Mr. John William
                                                                      male 24.0
## 868
                             Roebling, Mr. Washington Augustus II
                                                                      male 31.0
                                                                                     0
## 869
                                      van Melkebeke, Mr. Philemon
                                                                      male
                                                                             NA
                                                                                     0
## 871
                                                 Balkic, Mr. Cerin
                                                                      male 26.0
                                                                                     0
## 873
                                          Carlsson, Mr. Frans Olof
                                                                      male 33.0
## 874
                                      Vander Cruyssen, Mr. Victor
                                                                      male 47.0
                                                                                     0
## 877
                                    Gustafsson, Mr. Alfred Ossian
                                                                      male 20.0
                                                                                     0
## 878
                                                                      male 19.0
                                              Petroff, Mr. Nedelio
                                                                                     0
                                                                      male
## 879
                                                Laleff, Mr. Kristo
                                                                             NA
                                                                                     0
                                                Markun, Mr. Johann
## 882
                                                                      male 33.0
                                                                                     0
## 883
                                     Dahlberg, Miss. Gerda Ulrika female 22.0
                                                                                     0
## 884
                                    Banfield, Mr. Frederick James
                                                                      male 28.0
## 885
                                            Sutehall, Mr. Henry Jr
                                                                      male 25.0
                                                                                     0
## 886
                             Rice, Mrs. William (Margaret Norton) female 39.0
```

##	887				Montvila	Rev. Juozas	male	27 0	0
	889		Johnston	Miss	Catherine Hel			NA	1
	891		30111180011	, 11100.		Mr. Patrick			0
##	001	Parch	Ticket	Fare	•	Embarked	maro	02.0	ŭ
##	1	0	A/5 21171	7.2500		S			
##		0	373450	8.0500		S			
##		0	330877	8.4583		Q			
	7	0	17463	51.8625		S			
##		1	349909	21.0750		S			
##		0	A/5. 2151	8.0500		S			
	14	5	347082	31.2750		S			
	15	0	350406	7.8542		S			
	17	1	382652	29.1250		Q			
##	19	0	345763	18.0000		S			
	21	0	239865	26.0000		S			
##	25	1	349909	21.0750		S			
	27	0	2631	7.2250		C			
	28	2			C23 C25 C27	S			
##		0	349216	7.8958		S			
##	31	0	PC 17601	27.7208		C			
##		0	C.A. 24579	10.5000)	S			
##	35	0	PC 17604	82.1708		C			
##	36	0	113789	52.0000		S			
##	38	0	A./5. 2152	8.0500)	S			
##	39	0	345764	18.0000)	S			
##	41	0	7546	9.4750)	S			
##	42	0	11668	21.0000)	S			
##	43	0	349253	7.8958	}	C			
##	46	0	S.C./A.4. 23567	8.0500)	S			
##		0	370371	15.5000)	Q			
##		0	2662	21.6792		C			
##		0	349237	17.8000)	S			
##		1	3101295	39.6875		S			
##		0	A/4. 39886	7.8000		S			
##		1	113509	61.9792		C			
##		0	2697	7.2292		С			
##		2	CA 2144	46.9000		S			
##		0	2669	7.2292		С			
##		0	36973	83.4750		S			
##		2	347088	27.9000		S			
##		0	PC 17605	27.7208		C			
##		0	S.P. 3464	8.1583		S			
##		0	315151	8.6625		S			
##		0	C.A. 33111 CA 2144	10.5000 46.9000		S S			
##		2 0	S.O.C. 14879			s S			
## ##		0	2680	73.5000 14.4542		S C			
##		0	348123	7.6500		S			
##		0	349208	7.8958		S			
##		0	374746	8.0500		S			
##		0	345767	9.0000		S			
##		0	113059	47.1000		S			
##		3	W./C. 6608	34.3750		S			
##		0	SOTON/OQ 392086	8.0500		S			
		-							

##	90	0	343275	8.0500		S
##	91	0	343276	8.0500		S
##	92	0	347466	7.8542		S
##	93	0	W.E.P. 5734	61.1750	E31	S
##	94	2	C.A. 2315	20.5750		S
##	95	0	364500	7.2500		S
##	96	0	374910	8.0500		S
##	97	0	PC 17754	34.6542	A5	C
##	100	0	244367	26.0000		S
##	101	0	349245	7.8958		S
##	102	0	349215	7.8958		S
##	103	1	35281	77.2875	D26	S
##	104	0	7540	8.6542		S
##	105	0	3101276	7.9250		S
##	106	0	349207	7.8958		S
##	109	0	349249	7.8958		S
##	111	0	110465	52.0000	C110	S
##	112	0	2665	14.4542		C
##	113	0	324669	8.0500		S
##	114	0	4136	9.8250		S
	115	0	2627	14.4583		C
	116	0	STON/O 2. 3101294	7.9250		S
	117	0	370369	7.7500		Q
	118	0	11668	21.0000		S
	119	1	PC 17558		B58 B60	C
	120	2	347082	31.2750		S
	121	0	S.O.C. 14879	73.5000		S
	122	0	A4. 54510	8.0500		S
##	123	0	237736	30.0708		C
##	125	1	35281	77.2875	D26	S
##	127	0	370372	7.7500		Q
##	130	0	347061	6.9750		S
	131	0	349241	7.8958		C
	132	0	SOTON/O.Q. 3101307	7.0500		S
	133	0	A/5. 3337	14.5000		S
##	135	0	C.A. 29178	13.0000		S
##	136	0	SC/PARIS 2133	15.0458	2100	C
##	138	0	113803	53.1000	C123	S
##	139	0	7534	9.2167	D06	S
##	140	0	PC 17593	79.2000	B86	C
##	141	2	2678	15.2458		C
##	144	0	365222	6.7500		Q
##	145	0	231945	11.5000		S S
## ##	146	1	C.A. 33112 W./C. 6608	36.7500 34.3750		S S
##	148	2 2			F2	s S
##	149	0	230080 244310	26.0000 13.0000	ΓZ	s S
##	150 151	0	S.O.P. 1166	12.5250		S S
##	153	0	A.5. 11206	8.0500		s S
##	154	2	A.5. 11200 A/5. 851	14.5000		s S
##	155	0	Fa 265302	7.3125		S
##	156	1	PC 17597	61.3792		C
##	158	0	SOTON/OQ 392090	8.0500		S
##	159	0	315037	8.6625		S
пπ	100	J	515057	0.0020		b

##	160	2	CA. 2343	69.5500		S
##	161	1	371362	16.1000		S
##	163	0	347068	7.7750		S
##	164	0	315093	8.6625		S
##	165	1	3101295	39.6875		S
##	168	4	347088	27.9000		S
##	169	0	PC 17318	25.9250		S
##	170	0	1601	56.4958		S
##	171	0	111240	33.5000	B19	S
##	172	1	382652	29.1250		Q
##	174	0	STON/O 2. 3101280	7.9250		S
##	175	0	17764	30.6958	A7	C
##	176	1	350404	7.8542		S
##	177	1	4133	25.4667		S
##	178	0	PC 17595	28.7125	C49	C
##	179	0	250653	13.0000		S
##	180	0	LINE	0.0000		S
##	181	2	CA. 2343	69.5500		S
##	182	0	SC/PARIS 2131	15.0500		C
	183	2	347077	31.3875		S
	186	0	113767	50.0000	A32	S
	189	1	364849	15.5000		Q
	190	0	349247	7.8958		S
	192	0	28424	13.0000		S
	197	0	368703	7.7500		Q
	198	1	4579	8.4042		S
	200	0	248747	13.0000		S
	201	0	345770	9.5000		S
	202	2	CA. 2343	69.5500		S
	203	0	3101264	6.4958		S
	204	0	2628	7.2250	ac	C
	206	1	347054	10.4625	G6	S
	207	0	3101278	15.8500		S
	211	0	SOTON/O.Q. 3101311	7.0500		S
	213 214	0	A/5 21174 250646	7.2500		S S
	214	0	367229	13.0000		
	218	0	243847	7.7500 27.0000		Q S
	220	0	W/C 14208	10.5000		S
	222	0	220367	13.0000		S
	223	0	21440	8.0500		S
	224	0	349234	7.8958		S
	226	0	PP 4348	9.3500		S
	228	0	A/5 21173	7.2500		S
	229	0	236171	13.0000		S
	230	1	4133	25.4667		S
	232	0	347067	7.7750		S
	233	0	237442	13.5000		S
	235	0	C.A. 29566	10.5000		S
	236	0	W./C. 6609	7.5500		S
	237	0	26707	26.0000		S
	239	0	28665	10.5000		S
	240	0	SCO/W 1585	12.2750		S
	241	0	2665	14.4542		C

						_
	243	0	W./C. 14263	10.5000		S
	244	0	STON/O 2. 3101275	7.1250		S
	245	0	2694	7.2250	770	C
	246	0	19928	90.0000	C78	Q
	247	0	347071	7.7750		S
	250	0	244252	26.0000		S
	251	0	362316	7.2500	90	S
	252	1	347054	10.4625	G6	S
	253	0	113514	26.5500	C87	S
##	254	0	A/5. 3336	16.1000 20.2125		S
##	255 261	2	370129	7.7500		S
## ##	263	1	384461	7.7500	F67	Q S
##	264	0	110413 112059	0.0000	E67 B94	s S
##	265	0	382649	7.7500	D94	
##	266	0	C.A. 17248	10.5000		Q S
##	267	1	3101295	39.6875		S
	271	0	113798	31.0000		S
	274	1	PC 17596	29.7000	C118	C
	277	0	347073	7.7500	0110	S
	278	0	239853	0.0000		S
	279	1	382652	29.1250		Q
	281	0	336439	7.7500		Q
	282	0	347464	7.8542		S
	283	0	345778	9.5000		S
	285	0	113056	26.0000	A19	S
	286	0	349239	8.6625	1110	C
	288	0	349206	7.8958		S
	293	0	SC/Paris 2163	12.8750	D	C
	294	0	349236	8.8500		S
	295	0	349233	7.8958		S
##	296	0	PC 17612	27.7208		С
##	297	0	2693	7.2292		C
##	298	2	113781	151.5500	C22 C26	S
##	303	0	LINE	0.0000		S
##	305	0	A/5 2466	8.0500		S
##	309	0	P/PP 3381	24.0000		C
##	313	1	250651	26.0000		S
##	314	0	349243	7.8958		S
##	315	1	F.C.C. 13529	26.2500		S
##	318	0	29011	14.0000		S
##	321	0	A/5 21172	7.2500		S
##	322	0	349219	7.8958		S
##	325	2	CA. 2343	69.5500		S
##	327	0	345364	6.2375		S
##	332	0	113043	28.5000	C124	S
	333	1	PC 17582		C91	S
	334	0	345764	18.0000		S
	336	0	349225	7.8958		S
	337	0	113776	66.6000	C2	S
	340	0	113784	35.5000	Т	S
	343	0	248740	13.0000		S
	344	0	244361	13.0000		S
##	345	0	229236	13.0000		S

##	350	0	315088	8.6625		S
##	351	0	7267	9.2250		S
##	352	0	113510	35.0000	C128	S
##	353	1	2695	7.2292		C
##	354	0	349237	17.8000		S
##	355	0	2647	7.2250		C
##	356	0	345783	9.5000		S
##	358	0	237671	13.0000		S
	361	4	347088	27.9000		S
##	362	0	SC/PARIS 2167	27.7208		C
	363	1	2691	14.4542		С
	364	0	•	7.0500		S
##	365	0	370365	15.5000		Q
##	366	0	C 7076	7.2500		S
	372	0	3101267	6.4958		S
	373	0	323951	8.0500		S
	374	0	PC 17760			С
	375	1	349909	21.0750		S
	378	2		211.5000	C82	С
	379	0	2648	4.0125		С
	380	0	347069	7.7750		S
	383	0	STON/O 2. 3101293	7.9250		S
	385	0	349227	7.8958		S
	386	0	S.O.C. 14879	73.5000		S
	387	2	CA 2144	46.9000		S
	389	0	367655	7.7292		Q
	393	0	3101277	7.9250		S
	396	0	350052	7.7958		S
	397	0	350407	7.8542		S
	398	0	28403	26.0000		S
	399	0	244278	10.5000		S
	402	0	341826	8.0500		S
	403	0	4137	9.8250		S
	404	0	STON/02. 3101279	15.8500		S
	405	0	315096	8.6625		S
	406	0	28664	21.0000		S
	407	0	347064	7.7500		S
	409	0	312992	7.7750		S
	410	1	4133			S
	411	0	349222	7.8958		S
	412	0	394140	6.8583		Q
	414	0	239853	0.0000		S
	416	0	343095	8.0500		S
	419	0	28228			S
	420	2	345773			S
	421	0	349254	7.8958		C
	422	0	A/5. 13032	7.7333		Q
	423	0	315082	7.8750		S
	424	1	347080			S S
	425	1	370129 A/4. 34244	20.2125		S
	426 429	0	364851	7.2500 7.7500		
	429	0	STON/O 2. 3101274	7.1250		Q S
	434	0			E44	S
##	433	U	13507	55.9000	£ 44	۵

	437	2	W./C. 6608	34.3750		S
	439	4			C23 C25 C27	S
	440	0	C.A. 18723	10.5000		S
	442	0	345769	9.5000		S
	443	0	347076	7.7750		S
	451	2	C.A. 34651	27.7500		S
	452	0	65303	19.9667		S
	453	0	113051	27.7500	C111	C
	455	0	A/5 2817	8.0500		S
	457	0	13509	26.5500	E38	S
##	460	0	371060	7.7500		Q
##	462	0	364506	8.0500		S
##	463	0	111320	38.5000	E63	S
##	464	0	234360	13.0000		S
##	465	0	A/S 2816	8.0500		S
##	466	0	SOTON/O.Q. 3101306	7.0500		S
##	467	0	239853	0.0000		S
##	468	0	113792	26.5500		S
##	469	0	36209	7.7250		Q
##	471	0	323592	7.2500		S
##	472	0	315089	8.6625		S
##	475	0	7553	9.8375		S
##	476	0	110465	52.0000	A14	S
##	477	0	31027	21.0000		S
##	478	0	3460	7.0458		S
##	479	0	350060	7.5208		S
##	481	2	CA 2144	46.9000		S
##	482	0	239854	0.0000		S
##	483	0	A/5 3594	8.0500		S
##	486	1	4133	25.4667		S
##	488	0	11771	29.7000	B37	C
##	489	0	A.5. 18509	8.0500		S
##	491	0	65304	19.9667		S
##	492	0	SOTON/OQ 3101317	7.2500		S
##	493	0	113787	30.5000	C30	S
##	494	0	PC 17609	49.5042		C
##	495	0	A/4 45380	8.0500		S
##	496	0	2627	14.4583		C
##	498	0	C.A. 6212	15.1000		S
##	499	2	113781	151.5500	C22 C26	S
##	500	0	350035	7.7958		S
##	501	0	315086	8.6625		S
##	502	0	364846	7.7500		Q
##	503	0	330909	7.6292		Q
##	504	0	4135	9.5875		S
##	506	0	PC 17758	108.9000	C65	C
##	509	0	C 4001	22.5250		S
##	512	0	SOTON/OQ 3101316	8.0500		S
##	515	0	349209	7.4958		S
##	516	0	36967	34.0208	D46	S
##	518	0	371110	24.1500		Q
##	520	0	349242	7.8958		S
##	522	0	349252	7.8958		S
##	523	0	2624	7.2250		C

##	525	0	2700	7.2292		С
	526	0	367232	7.7500		Q
	528	0	PC 17483		C95	S
	529	0	3101296	7.9250	030	S
	530	1	29104	11.5000		S
	532	0	2641	7.2292		C
	533	1	2690	7.2292		C
	535	0	315084	8.6625		S
	537	0	113050	26.5500	B38	S
	539	0	364498	14.5000	БЭО	S
	542	2	347082	31.2750		S
	543	2	347082	31.2750		S
	545	0	PC 17761		C86	C
	546		693		Cob	S
		0		26.0000		
	549	1	363291	20.5250		S
	552	0	244358	26.0000		S
	553	0	330979	7.8292		Q
	556	0	113807	26.5500		S
	558	0	PC 17757			C
	561	0	372622	7.7500		Q
	562	0	349251	7.8958		S
	563	0	218629	13.5000		S
	564	0	SOTON/OQ 392082	8.0500		S
	565	0	SOTON/O.Q. 392087	8.0500		S
	566	0	A/4 48871	24.1500		S
	567	0	349205	7.8958		S
	568	4	349909	21.0750		S
	569	0	2686	7.2292		C
	575	0	A/4. 20589	8.0500		S
	576	0	358585	14.5000		S
	579	0	2689	14.4583		C
##	583	0	28403	26.0000		S
##	584	0	13049	40.1250	A10	C
	585	0	3411	8.7125		С
	587	0	237565	15.0000		S
##	589	0	14973	8.0500		S
	590	0	A./5. 3235	8.0500		S
	591	0	STON/O 2. 3101273	7.1250		S
	593	0	A/5 3902	7.2500		S
	594	2	364848	7.7500		Q
	595	0	SC/AH 29037	26.0000		S
	596	1	345773	24.1500		S
	598	0	LINE	0.0000		S
##	599	0	2664	7.2250		С
##	602	0	349214	7.8958		S
##	603	0	113796	42.4000		S
##	604	0	364511	8.0500		S
##	606	0	349910	15.5500		S
##	607	0	349246	7.8958		S
##	611	5	347082	31.2750		S
	612		SOTON/O.Q. 3101305	7.0500		S
	614	0	370377	7.7500		Q
	615	0	364512	8.0500		S
##	617	1	347080	14.4000		S

шш	610	^	A /E 2226	16 1000		С
	618	0	A/5. 3336	16.1000		S
	620	0	31028	10.5000		S
	621	0	2659	14.4542		C
	624	0	350029	7.8542		S
	625	0	54636	16.1000		S
	626	0	36963	32.3208	D50	S
	627	0	219533	12.3500		Q
	629	0	349224	7.8958		S
	630	0	334912	7.7333		Q
	632	0	347743	7.0542		S
	634	0	112052	0.0000		S
	635	2	347088	27.9000		S
	637	0	STON/O 2. 3101292	7.9250		S
	638	1	C.A. 31921	26.2500		S
##	639	5	3101295	39.6875		S
##	640	0	376564	16.1000		S
##	641	0	350050	7.8542		S
##	643	2	347088	27.9000		S
##	647	0	349231	7.8958		S
##	649	0	S.O./P.P. 751	7.5500		S
##	651	0	349221	7.8958		S
##	653	0	8475	8.4333		S
##	655	0	365226	6.7500		Q
##	656	0	S.O.C. 14879	73.5000		S
##	657	0	349223	7.8958		S
##	658	1	364849	15.5000		Q
##	659	0	29751	13.0000		S
##	660	2	35273	113.2750	D48	C
##	662	0	2623	7.2250		C
##	663	0	5727	25.5875	E58	S
##	664	0	349210	7.4958		S
##	666	0	S.O.C. 14879	73.5000		S
##	667	0	234686	13.0000		S
##	668	0	312993	7.7750		S
##	669	0	A/5 3536	8.0500		S
##	672	0	F.C. 12750	52.0000	B71	S
##	673	0	C.A. 24580	10.5000		S
##	675	0	239856	0.0000		S
##	676	0	349912	7.7750		S
##	677	0	342826	8.0500		S
##	679	6	CA 2144	46.9000		S
##	681	0	330935	8.1375		Q
	683	0	6563	9.2250		S
##	684	2	CA 2144	46.9000		S
##	685	1	29750	39.0000		S
	686	2	SC/Paris 2123	41.5792		С
	687	1	3101295	39.6875		S
	688	0	349228	10.1708		S
	689	0	350036	7.7958		S
	694	0	2672	7.2250		C
	695	0	113800	26.5500		S
	696	0	248731	13.5000		S
	697	0	363592	8.0500		S
	699	1		110.8833	C68	C
	-					

##	700	0	348121	7.6500	F G63	S
##	703	1	2691	14.4542		С
##	704	0	36864	7.7417		Q
##	705	0	350025	7.8542		S
	706	0	250655	26.0000		S
##	712	0	113028	26.5500	C124	S
##	714	0	7545	9.4833		S
	715	0	250647	13.0000		S
##	716	0	348124	7.6500	F G73	S
##	719	0	36568	15.5000		Q
##	720	0	347062	7.7750		S
##	722	0	350048	7.0542		S
##	723	0	12233	13.0000		S
##	724	0	250643	13.0000		S
##	726	0	315094	8.6625		S
##	729	0	236853	26.0000		S
##	730	0	STON/02. 3101271	7.9250		S
##	732	0	2699	18.7875		C
	733	0	239855	0.0000		S
	734	0	28425	13.0000		S
	735	0	233639	13.0000		S
	736	0	54636	16.1000		S
	737	3	W./C. 6608	34.3750		S
	739	0	349201	7.8958		S
	740	0	349218	7.8958		S
	742	0	19877	78.8500	C46	S
	744	0	376566	16.1000		S
	746	1	WE/P 5735	71.0000	B22	S
	747	1	C.A. 2673	20.2500		S
##	749	0	113773	53.1000	D30	S
##	750	0	335097	7.7500		Q
##	753	0	345780	9.5000		S
##	754	0	349204	7.8958		S
##	757	0	350042	7.7958		S
##	758	0	29108	11.5000		S
##	759	0	363294	8.0500		S
	761	0	358585	14.5000		S
##	762	0	SOTON/02 3101272	7.1250		S
##	765 767	0	347074	7.7750		S C
	767	0	112379	39.6000		
## ##	768 769	0	364850 371110	7.7500 24.1500		Q
##	770	0	8471	8.3625		Q S
##	771	0	345781	9.5000		S
##	772	0	350047	7.8542		S
##	773	0	S.O./P.P. 3	10.5000	E77	S
##	774	0	2674	7.2250	ь г	C
##	776	0	347078	7.7500		S
##	777	0	383121	7.7500	F38	Q
##	779	0	36865	7.7375	1.00	Q
##	783	0	113501	30.0000	D6	S
##	784	2	W./C. 6607	23.4500	Ъ0	S
##	785	0	SOTON/O.Q. 3101312	7.0500		S
##	786	0	374887	7.2500		S
		•	0.1501			2

	788	1	382652	29.1250		Q
	790	0	PC 17593	79.2000	B82 B84	C
##	791	0	12460	7.7500		Q
##	792	0	239865	26.0000		S
##	793	2	CA. 2343	69.5500		S
##	794	0	PC 17600	30.6958		C
##	795	0	349203	7.8958		S
##	796	0	28213	13.0000		S
##	799	0	2685	7.2292		C
##	800	1	345773	24.1500		S
##	801	0	250647	13.0000		S
##	806	0	347063	7.7750		S
##	807	0	112050	0.0000	A36	S
##	808	0	347087	7.7750		S
##	809	0	248723	13.0000		S
##	811	0	3474	7.8875		S
##	812	0	A/4 48871	24.1500		S
##	813	0	28206	10.5000		S
	814	2	347082	31.2750		S
	815	0	364499	8.0500		S
	816	0	112058	0.0000	B102	S
	817	0	STON/02. 3101290	7.9250	2102	S
	818	1	S.C./PARIS 2079	37.0042		C
	819	0	C 7075	6.4500		S
	820	2	347088	27.9000		S
	823	0	19972	0.0000		S
	825	1	3101295	39.6875		S
	826	0	368323	6.9500		Q
	827	0	1601	56.4958		S
	833	0	2671	7.2292		C
	834	0	347468	7.8542		S
	835	0	2223	8.3000		S
	837	0	315097	8.6625		S
	838	0	392092	8.0500		S
	841	0	SOTON/O2 3101287	7.9250		S
	842	0	S.O./P.P. 3	10.5000		S
	844	0	2683	6.4375		C
	845	0	315090	8.6625		S
	846	0	C.A. 5547	7.5500		S
	847	2	CA. 2343	69.5500		S
	848	0	349213	7.8958		C
	849	1	248727	33.0000		S
	851	2	347082	31.2750		S
	852	0	347062	7.7750		S
	853	1	2678	15.2458		C
	855	0	244252	26.0000		S
	860	0	2629	7.2292		C
	861	0	350026	14.1083		S
	862	0	28134	14.1003		s S
	864	2	CA. 2343	69.5500		s S
		0				s S
	865 868	0	233866 PC 17590	13.0000 50.4958	A24	s S
	869	0	345777	9.5000	A24	s S
		0				S S
##	871	U	349248	7.8958		۵

```
## 873
                                    5.0000 B51 B53 B55
                              695
                                                                S
## 874
           0
                          345765
                                    9.0000
                                                                S
                                                                S
## 877
           0
                             7534
                                    9.8458
## 878
                          349212
                                    7.8958
                                                                S
           0
## 879
           0
                           349217
                                    7.8958
                                                                S
## 882
           0
                           349257
                                    7.8958
                                                                S
## 883
                                   10.5167
                                                                S
           0
                             7552
## 884
                C.A./SOTON 34068
                                                                S
           0
                                   10.5000
## 885
           0
                 SOTON/OQ 392076
                                    7.0500
                                                                S
## 886
           5
                                                                Q
                          382652
                                   29.1250
## 887
           0
                           211536
                                   13.0000
                                                                S
           2
                                                                S
## 889
                      W./C. 6607
                                   23.4500
## 891
           0
                          370376
                                    7.7500
                                                                Q
head(survived)
      PassengerId Survived Pclass
##
## 2
                 2
## 3
                                  3
                 3
                           1
## 4
                 4
                           1
                                  1
## 9
                 9
                                  3
                           1
## 10
                10
                                  2
                           1
## 11
                           1
                                  3
                11
##
                                                         Name
                                                                 Sex Age SibSp Parch
## 2
      Cumings, Mrs. John Bradley (Florence Briggs Thayer) female
                                                                      38
                                                                                    0
## 3
                                     Heikkinen, Miss. Laina female
                                                                              0
                                                                                    0
             Futrelle, Mrs. Jacques Heath (Lily May Peel) female
## 4
                                                                                    0
                                                                              1
        Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg) female
## 9
                                                                      27
                                                                              0
                                                                                    2
                       Nasser, Mrs. Nicholas (Adele Achem) female
## 10
                                                                                     0
## 11
                            Sandstrom, Miss. Marguerite Rut female
                                                                                     1
##
                 Ticket
                           Fare Cabin Embarked
## 2
                                   C85
              PC 17599 71.2833
                                               C
      STON/02. 3101282 7.9250
                                               S
## 4
                 113803 53.1000
                                               S
                                  C123
                                               S
## 9
                 347742 11.1333
                 237736 30.0708
## 10
                                               С
               PP 9549 16.7000
## 11
                                    G6
                                               S
head(dead)
##
      PassengerId Survived Pclass
                                                                Name Sex Age SibSp
## 1
                 1
                          0
                                  3
                                            Braund, Mr. Owen Harris male
                                                                            22
## 5
                 5
                          0
                                  3
                                           Allen, Mr. William Henry male
                                                                                   0
                                                                            35
                                  3
## 6
                 6
                          0
                                                   Moran, Mr. James male
## 7
                 7
                          0
                                  1
                                           McCarthy, Mr. Timothy J male
                                                                            54
                                                                                   0
## 8
                 8
                          0
                                  3 Palsson, Master. Gosta Leonard male
                                                                             2
                                                                                   3
## 13
                13
                          0
                                  3 Saundercock, Mr. William Henry male
                                                                                   0
                          Fare Cabin Embarked
      Parch
                Ticket
          0 A/5 21171
## 1
                        7.2500
                                              S
## 5
          0
                373450
                       8.0500
                                              S
## 6
                                              Q
          0
                330877 8.4583
## 7
                 17463 51.8625
                                              S
          0
                                  E46
## 8
          1
                349909 21.0750
                                              S
                                              S
```

13

0 A/5. 2151 8.0500

```
library(readr)
library(pastecs)
library(Hmisc)
breast_Cancer <- read.csv("breastcancer_wisconsin.csv")</pre>
breast_CancerStats <- stat.desc(breast_Cancer)</pre>
breast CancerStats
##
                           id clump_thickness size_uniformity shape_uniformity
                                  699.0000000
                                                   699.0000000
                                                                     699.0000000
## nbr.val
                6.990000e+02
## nbr.null
                0.000000e+00
                                    0.000000
                                                     0.0000000
                                                                       0.000000
## nbr.na
                0.000000e+00
                                    0.000000
                                                     0.000000
                                                                       0.000000
## min
                6.163400e+04
                                    1.0000000
                                                     1.0000000
                                                                       1.000000
## max
                1.345435e+07
                                                                      10.0000000
                                   10.0000000
                                                    10.000000
## range
                1.339272e+07
                                    9.000000
                                                     9.000000
                                                                       9.000000
                7.491212e+08
                                                                    2242.0000000
## sum
                                 3088.0000000
                                                  2191.0000000
##
  median
                1.171710e+06
                                    4.000000
                                                     1.000000
                                                                       1.000000
##
   mean
                1.071704e+06
                                    4.4177396
                                                     3.1344778
                                                                       3.2074392
##
  SE.mean
                2.334070e+04
                                    0.1065011
                                                     0.1154168
                                                                       0.1124081
## CI.mean.0.95 4.582640e+04
                                                     0.2266057
                                                                       0.2206984
                                    0.2091009
   var
                3.808071e+11
                                    7.9283955
                                                     9.3114027
                                                                       8.8322655
## std.dev
                6.170957e+05
                                    2.8157407
                                                     3.0514591
                                                                       2.9719128
   coef.var
                5.758079e-01
                                    0.6373713
                                                     0.9735143
                                                                       0.9265687
##
                marginal_adhesion epithelial_size bare_nucleoli bland_chromatin
                       699.0000000
  nbr.val
                                       6.990000e+02
                                                                NA
                                                                      6.990000e+02
## nbr.null
                         0.0000000
                                       0.000000e+00
                                                                NA
                                                                      0.000000e+00
## nbr.na
                         0.0000000
                                       0.00000e+00
                                                                NA
                                                                      0.000000e+00
## min
                         1.0000000
                                       1.000000e+00
                                                                NΑ
                                                                      1.000000e+00
## max
                        10.0000000
                                       1.000000e+01
                                                                NA
                                                                      1.000000e+01
## range
                         9.0000000
                                       9.000000e+00
                                                                NA
                                                                      9.000000e+00
## sum
                      1962.0000000
                                       2.248000e+03
                                                                      2.403000e+03
                                                                NΑ
## median
                         1.0000000
                                       2.000000e+00
                                                                NA
                                                                      3.000000e+00
## mean
                         2.8068670
                                       3.216023e+00
                                                                NΑ
                                                                      3.437768e+00
## SE.mean
                         0.1080004
                                       8.375251e-02
                                                                NA
                                                                      9.222741e-02
## CI.mean.0.95
                                       1.644370e-01
                         0.2120445
                                                                NA
                                                                      1.810764e-01
## var
                         8.1531906
                                       4.903124e+00
                                                                NA
                                                                      5.945620e+00
## std.dev
                         2.8553792
                                       2.214300e+00
                                                                NA
                                                                      2.438364e+00
   coef.var
                                       6.885212e-01
                                                                      7.092870e-01
                         1.0172834
##
                normal_nucleoli
                                       mitoses
                                                      class
                     699.0000000 6.990000e+02 6.990000e+02
##
  nbr.val
  nbr.null
                       0.0000000 0.000000e+00 0.000000e+00
## nbr.na
                       0.0000000 0.000000e+00 0.000000e+00
## min
                       1.0000000 1.000000e+00 2.000000e+00
                      10.0000000 1.000000e+01 4.000000e+00
## max
## range
                       9.0000000 9.000000e+00 2.000000e+00
## sum
                    2004.0000000 1.111000e+03 1.880000e+03
## median
                       1.0000000 1.000000e+00 2.000000e+00
## mean
                       2.8669528 1.589413e+00 2.689557e+00
## SE.mean
                       0.1154990 6.487021e-02 3.598043e-02
## CI.mean.0.95
                       0.2267672 1.273641e-01 7.064284e-02
## var
                       9.3246800 2.941492e+00 9.049194e-01
## std.dev
                       3.0536339 1.715078e+00 9.512725e-01
## coef.var
                       1.0651148 1.079063e+00 3.536912e-01
```

```
clump_thickness_SEmean <- breast_CancerStats["SE.mean", "clump_thickness"]</pre>
clump_thickness_SEmean
## [1] 0.1065011
marginal_adhesion_coefVar <- breast_CancerStats["coef.var", "marginal_adhesion"]</pre>
marginal_adhesion_coefVar
## [1] 1.017283
bare_nucleoli_null <- breast_CancerStats["nbr.null", "bare_nucleoli"]</pre>
bare_nucleoli_null
## [1] NA
bland_chromatin_mean <- breast_CancerStats["mean", "bland_chromatin"]</pre>
bland_chromatin_mean
## [1] 3.437768
bland_chromatin_std_dev <- breast_CancerStats["std.dev", "bland_chromatin"]
bland_chromatin_std_dev
## [1] 2.438364
shape_uniformity_CImean <- breast_CancerStats["CI.mean", "shape_uniformity"]</pre>
shape uniformity CImean
## [1] 0.2206984
num_attributes <- ncol(breast_Cancer)</pre>
num attributes
## [1] 11
# Assuming class 4 is malignant
percentage_malignant <- (sum(breast_Cancer$class == 4) / nrow(breast_Cancer)) * 100</pre>
paste0("Percentage of Respondents who are Malignant: ", percentage_malignant,"%")
## [1] "Percentage of Respondents who are Malignant: 34.4778254649499%"
library("AppliedPredictiveModeling")
library("readxl")
abalone <-read excel("abalone.xlsx")
## New names:
## * `` -> `...1`
head(abalone)
## # A tibble: 6 x 10
## ...1 Type LongestShell Diameter Height WholeWeight ShuckedWeight
     <chr> <chr>
                        <dbl>
                                 <dbl> <dbl>
                                                     <dbl>
                                                                    <dbl>
                                 0.365 0.095
                                                                   0.224
## 1 1
                        0.455
                                                     0.514
           M
                                                                   0.0995
## 2 2
          Μ
                        0.35
                                 0.265 0.09
                                                     0.226
## 3 3
       F
                        0.53
                                                     0.677
                                                                   0.256
                                 0.42
                                        0.135
## 4 4
         M
                        0.44
                                 0.365 0.125
                                                     0.516
                                                                   0.216
## 5 5
          Ι
                        0.33
                                 0.255 0.08
                                                     0.205
                                                                   0.0895
## 6 6
           Ι
                        0.425
                                 0.3
                                         0.095
                                                     0.352
                                                                   0.141
## # i 3 more variables: VisceraWeight <dbl>, ShellWeight <dbl>, Rings <dbl>
```

summary(abalone) LongestShell Diameter ## ...1 Type ## Length: 4177 Length: 4177 Min. :0.075 Min. :0.0550 1st Qu.:0.450 1st Qu.:0.3500 Class : character Class : character Mode :character ## Mode :character Median : 0.545 Median :0.4250 ## Mean :0.524 Mean :0.4079 ## 3rd Qu.:0.4800 3rd Qu.:0.615 ## Max. :0.815 Max. :0.6500 ## Height WholeWeight ShuckedWeight VisceraWeight ## Min. :0.0000 Min. :0.0020 Min. :0.0010 Min. :0.0005 1st Qu.:0.1150 1st Qu.:0.4415 1st Qu.:0.1860 1st Qu.:0.0935 Median :0.1400 Median :0.7995 Median :0.3360 Median :0.1710 ## ## Mean :0.1395 Mean :0.8287 Mean :0.3594 Mean :0.1806 ## 3rd Qu.:0.1650 3rd Qu.:1.1530 3rd Qu.:0.5020 3rd Qu.:0.2530 :1.1300 Max. :2.8255 Max. :1.4880 Max. :0.7600 ## ShellWeight Rings :0.0015 : 1.000 ## Min. Min. 1st Qu.: 8.000 1st Qu.:0.1300 ## Median :0.2340 Median: 9.000 ## Mean :0.2388 Mean : 9.934 3rd Qu.:0.3290 3rd Qu.:11.000 ## Max. :1.0050 Max. :29.000 head(abalone) ## # A tibble: 6 x 10 ...1 Type LongestShell Diameter Height WholeWeight ShuckedWeight <chr> <chr> <dbl> <dbl> <dbl> <dbl> <dbl> 0.365 0.095 0.224 ## 1 1 М 0.455 0.514 ## 2 2 0.35 0.265 0.09 0.226 0.0995 ## 3 3 F 0.42 0.256 0.53 0.135 0.677 ## 4 4 М 0.44 0.365 0.125 0.516 0.216 ## 5 5 Ι 0.33 0.255 0.08 0.205 0.0895 ## 6 6 Ι 0.425 0.3 0.095 0.352 0.141 ## # i 3 more variables: VisceraWeight <dbl>, ShellWeight <dbl>, Rings <dbl> summary(abalone) ## LongestShell Type Diameter ...1

```
Length: 4177
                       Length: 4177
                                           Min.
                                                  :0.075
                                                                  :0.0550
                                           1st Qu.:0.450
                                                           1st Qu.:0.3500
   Class :character
                       Class : character
   Mode :character
                       Mode :character
                                           Median : 0.545
                                                           Median : 0.4250
##
                                           Mean
                                                 :0.524
                                                           Mean
                                                                  :0.4079
##
                                           3rd Qu.:0.615
                                                           3rd Qu.:0.4800
##
                                                  :0.815
                                                                  :0.6500
                                           Max.
                                                           Max.
##
        Height
                      WholeWeight
                                       ShuckedWeight
                                                        VisceraWeight
##
   Min.
          :0.0000
                     Min.
                            :0.0020
                                      Min.
                                             :0.0010
                                                        Min.
                                                               :0.0005
   1st Qu.:0.1150
                     1st Qu.:0.4415
                                       1st Qu.:0.1860
                                                        1st Qu.:0.0935
   Median :0.1400
                     Median :0.7995
                                                        Median :0.1710
##
                                      Median :0.3360
                                                               :0.1806
##
   Mean :0.1395
                     Mean
                           :0.8287
                                      Mean
                                             :0.3594
                                                        Mean
##
   3rd Qu.:0.1650
                     3rd Qu.:1.1530
                                       3rd Qu.:0.5020
                                                        3rd Qu.:0.2530
                                      Max.
##
                            :2.8255
                                             :1.4880
                                                               :0.7600
  Max.
           :1.1300
                     Max.
                                                        Max.
##
    ShellWeight
                         Rings
##
  Min.
           :0.0015
                     Min.
                            : 1.000
```

```
## 1st Qu.:0.1300 1st Qu.: 8.000

## Median :0.2340 Median : 9.000

## Mean :0.2388 Mean : 9.934

## 3rd Qu.:0.3290 3rd Qu.:11.000

## Max. :1.0050 Max. :29.000
```