## RWorksheet\_Olivo#6

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## 2023-12-19

- 1. Create a data frame for the table below. Show your solution.
- a. Compute the descriptive statistics using different packages (Hmisc and pastecs). Write the codes and its result.

```
studentScore <- 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)
)
studentScore
##
      Student Pre_test Post_test
## 1
            1
                     55
## 2
            2
                     54
                                60
## 3
            3
                     47
                                56
            4
                     57
## 4
                                63
## 5
            5
                     51
                                56
            6
## 6
                     61
                                63
## 7
            7
                     57
                                59
## 8
            8
                     54
                                56
## 9
            9
                     63
                                62
## 10
           10
                     58
                                61
#install.packages("pastecs")
#install.packages("Hmisc")
library(pastecs)
library(Hmisc)
##
## Attaching package: 'Hmisc'
## The following objects are masked from 'package:base':
##
##
       format.pval, units
pastecsStats <- stat.desc(studentScore)</pre>
pastecsStats
```

```
9.0000000 16.00000000 7.00000000
## range
## sum
             55.0000000 557.00000000 597.00000000
## median
             5.5000000 56.00000000 60.50000000
              5.5000000 55.70000000 59.70000000
## mean
## SE.mean
               0.9574271
                         1.46855938
                                      0.89504811
## CI.mean.0.95 2.1658506 3.32211213 2.02473948
              9.1666667 21.56666667 8.01111111
## std.dev
               3.0276504 4.64399254 2.83039063
## coef.var
               0.5504819 0.08337509 0.04741023
hmiscStats <- Hmisc::describe(studentScore[,c("Pre_test","Post_test")])</pre>
hmiscStats
## studentScore[, c("Pre_test", "Post_test")]
##
                10 Observations
   2 Variables
## Pre_test
        n missing distinct
                              Info Mean
                                                 Gmd
##
        10
                0
                        8
                              0.988
                                       55.7
                                               5.444
##
## Value
             47 51 54 55 57 58 61 63
## Frequency
            1 1 2 1 2 1 1
## Proportion 0.1 0.1 0.2 0.1 0.2 0.1 0.1 0.1
##
## For the frequency table, variable is rounded to the nearest 0
## Post test
##
       n missing distinct
                             {\tt Info}
                                       Mean
                                                 Gmd
                              0.964
                                       59.7
##
        10
           0 6
                                               3.311
##
## Value
             56 59 60 61 62 63
            3 1 1 2
## Frequency
                            1
## Proportion 0.3 0.1 0.1 0.2 0.1 0.2
## For the frequency table, variable is rounded to the nearest 0
## -----
  2. The Department of Agriculture was studying the effects of several levels of a fertilizer on the growth of
    a plant. For some analyses, it might be useful to convert the fertilizer levels to an ordered factor.
#install.packages("dplyr")
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
##
lvlFertilizer \leftarrow c(10,10,10, 20,20,50,10,20,10,50,20,50,20,10)
orderedLvlFertilizer <- factor(lvlFertilizer, levels = unique(lvlFertilizer))</pre>
summaryFertilizer <- summary(orderedLvlFertilizer)</pre>
summaryFertilizer
## 10 20 50
## 6 5 3
     3. Abdul Hassan, president of Floor Coverings Unlimited, has asked you to study the exercise levels
           undertaken by 10 subjects were "l", "n", "n", "i", "l", "l", "n", "n", "i", "l"; n=none, l=light, i=intense
     a. What is the best way to represent this in R?
factoredLvlExercise <- factor(lvlExercise, levels = c("n","l","i"))</pre>
summaryExercise <- summary(factoredLvlExercise)</pre>
summaryExercise
## n l i
## 5 4 1
     4. Sample of 30 tax accountants from all the states and territories of Australia and their individual state
           of origin is specified by a character vector of state mnemonics as: state <- c("tas", "sa", "qld", "nsw",
           "nsw", "nt", "wa", "wa", "qld", "vic", "nsw", "vic", "qld", "qld", "sa", "tas", "sa", "nt", "wa", "vic",
           "qld", "nsw", "nsw", "wa", "sa", "act", "nsw", "vic", "vic", "act")
     a. Apply the factor function and factor level. Describe the results.
states <- c("tas", "sa", "qld", "nsw", "nsw", "nt", "wa", "wa", "qld", "vic", "nsw", "vic", "qld", "
factoredState <- factor(states)</pre>
factoredState
## [1] tas sa qld nsw nsw nt wa wa qld vic nsw vic qld qld sa tas sa nt wa
## [20] vic gld nsw nsw wa sa act nsw vic vic act
## Levels: act nsw nt qld sa tas vic wa
summaryStates <- summary(factoredState)</pre>
summaryStates
## act nsw nt qld sa tas vic
                    6
                             2
                                      5
                                              4
                                                                   5
                                                          2
```

5. From #4 - continuation:

• Suppose we have the incomes of the same tax accountants in another vector (in suitably large units of money)

# The result will be a factor that aligns with the unique values in the original character vector. Each

incomes < 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)

a. Calculate the sample mean income for each state we can now use the special function tapply():

Example: giving a means vector with the components labelled by the levels incmeans <- tapply(incomes, statef, mean)

Note: The function tapply() is used to apply a function, here mean(), to each group of components of the first argument, here incomes, defined by the levels of the second component, here state 2

```
incomes <- 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)

meanIncomes <- tapply(incomes, factoredState, mean)
meanIncomes</pre>
```

```
## act nsw nt qld sa tas vic wa
## 44.50000 57.33333 55.50000 53.60000 55.00000 60.50000 56.00000 52.25000
```

b.Copy the results and interpret.

Result:

```
act nsw nt qld sa tas vic wa
```

 $44.50000\ 57.33333\ 55.50000\ 53.60000\ 55.00000\ 60.50000\ 56.00000\ 52.25000$ 

This output contains the mean of income for each state. And each names are levels of the factor of stateFactor.

6. Calculate the standard errors of the state income means (refer again to number 3)

```
stdError <- function(x) sqrt(var(x)/length(x))
```

Note: After this assignment, the standard errors are calculated by: incster <- tapply(incomes, statef, stdError)

a. What is the standard error? Write the codes.

```
stdError <- function(x) sqrt(var(x)/length(x))
incster <- tapply(incomes, states, stdError)
standardError <- tapply(incomes, factoredState, stdError)
standardError</pre>
```

```
## act nsw nt qld sa tas vic wa
## 1.500000 4.310195 4.500000 4.106093 2.738613 0.500000 5.244044 2.657536
```

b. Interpret the results.

The vector inester contains the standard errors associated with the estimated mean income for each state. The standard error reflects the variability of the sample mean, with larger standard errors indicating greater variability.

- 7. Use the titanic dataset.
- a. Subset the titatic dataset of those who survived and not survived. Show the codes and its result.

```
#install.packages("titanic")

library(titanic)

data("titanic_train")

titanic_data <- titanic_train

str(titanic_data)</pre>
```

```
891 obs. of 12 variables:
## 'data.frame':
## $ PassengerId: int 1 2 3 4 5 6 7 8 9 10 ...
                 : int 0 1 1 1 0 0 0 0 1 1 ...
## $ Survived
                        3 1 3 1 3 3 1 3 3 2 ...
## $ Pclass
                 : int
                         "Braund, Mr. Owen Harris" "Cumings, Mrs. John Bradley (Florence Briggs Thayer)"
## $ Name
                 : chr
## $ Sex
                        "male" "female" "female" "female" ...
                 : chr
## $ Age
                        22 38 26 35 35 NA 54 2 27 14 ...
                 : num
## $ SibSp
                        1 1 0 1 0 0 0 3 0 1 ...
                 : int
## $ Parch
                        0 0 0 0 0 0 0 1 2 0 ...
                 : int
                        "A/5 21171" "PC 17599" "STON/O2. 3101282" "113803" ...
## $ Ticket
                 : chr
## $ Fare
                        7.25 71.28 7.92 53.1 8.05 ...
                  : num
                         "" "C85" "" "C123" ...
##
    $ Cabin
                  : chr
                        "S" "C" "S" "S" ...
## $ Embarked
                 : chr
survived <- subset(titanic_data, Survived == 1)</pre>
survived
##
       PassengerId Survived Pclass
## 2
                 2
                           1
## 3
                 3
                           1
                                  3
## 4
                 4
                           1
                                  1
## 9
                 9
                                  3
                           1
## 10
                10
                                  2
                           1
## 11
                                  3
                11
                           1
## 12
                12
                           1
                                  1
## 16
                16
                           1
                                  2
## 18
                18
                           1
                                  2
                                  3
## 20
                20
                           1
                22
                                  2
## 22
                           1
## 23
                23
                           1
                                  3
## 24
                24
                           1
                                  1
## 26
                26
                           1
                                  3
## 29
                29
                                  3
                           1
## 32
                32
                                  1
                           1
                                  3
## 33
                33
                           1
## 37
                37
                                  3
                           1
## 40
                40
                                  3
                           1
## 44
                44
                           1
                                  2
## 45
                                  3
                45
                           1
## 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
```

3

2

3

3

3

2

1

1

1

1

1

1

## 75

## 79

## 80

## 82

## 83

## 85

75

79

80

82

83

85

## 86	86	1	3
## 89	89	1	1
## 98	98	1	1
## 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	231	1	1
## 234	234	1	3
## 238	238	1	2
## 242	242	1	3
## 248	248	1	2
## 249	249	1	1
## 256	256	1	3
## 257	257	1	1
## 258	258	1	1
## 259	259	1	1
## 260	260	1	2

				_
##	262	262	1	3
##	268	268	1	3
##	269	269	1	1
##	270	270	1	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
ırπ	J. 1	J. 1	-	_

##	376	376	1	1
##	377	377	1	3
##	381	381	1	1
##	382	382	1	3
##	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	484	1	3
##	485	485	1	1
##	487	487	1	1
##	490	490	1	3
##	497	497	1	1
##	505	505	1	1
##	507	507	1	2
##	507	50 <i>1</i> 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
			1	
##	521	521		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
				1
##	680	680	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
##	131	131	T	Т

```
## 798
                798
                            1
                                    3
                                    2
## 802
                802
                            1
## 803
                            1
                803
                                    1
## 804
                804
                            1
                                    3
                                    3
## 805
                805
                            1
## 810
                810
                            1
                                    1
## 821
                821
                            1
                                    1
## 822
                822
                                    3
                            1
## 824
                824
                            1
                                    3
## 828
                            1
                                    2
                828
## 829
                829
                            1
                                    3
## 830
                            1
                                    1
                830
## 831
                            1
                                    3
                831
                                    2
                            1
## 832
                832
## 836
                836
                            1
                                    1
## 839
                839
                            1
                                    3
## 840
                840
                            1
                                    1
## 843
                            1
                843
                                    1
## 850
                850
                            1
                                    1
                            1
## 854
                854
                                    1
## 856
                856
                            1
                                    3
## 857
                857
                            1
                                    1
## 858
                858
                            1
                                    1
## 859
                859
                            1
                                    3
## 863
                            1
                                    1
                863
## 866
                866
                            1
                                    2
## 867
                867
                            1
                                    2
## 870
                870
                            1
                                    3
## 872
                            1
                                    1
                872
## 875
                            1
                                    2
                875
## 876
                876
                            1
                                    3
## 880
                880
                            1
                                    1
## 881
                            1
                                    2
                881
## 888
                888
                            1
                                    1
                            1
##
   890
                890
                                    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)
## 29
                                                                  O'Dwyer, Miss. Ellen "Nellie"
## 32
                                               Spencer, Mrs. William Augustus (Marie Eugenie)
## 33
                                                                       Glynn, Miss. Mary Agatha
## 37
                                                                                Mamee, Mr. Hanna
```

##	40	Nicola-Yarred, Miss. Jamila
##	44	Laroche, Miss. Simonne Marie Anne Andree
##	45	Devaney, Miss. Margaret Delia
##	48	O'Driscoll, Miss. Bridget
##	53	Harper, Mrs. Henry Sleeper (Myna Haxtun)
##	54	Faunthorpe, Mrs. Lizzie (Elizabeth Anne Wilkinson)
##	56	Woolner, Mr. Hugh
##	57	Rugg, Miss. Emily
##	59	West, Miss. Constance Mirium
##	62	Icard, Miss. Amelie
##	66	Moubarek, Master. Gerios
##	67	Nye, Mrs. (Elizabeth Ramell)
##	69	Andersson, Miss. Erna Alexandra
##	75	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	·
	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	·
##	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	Collyer, Miss. Marjorie "Lottie"
	242	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	Francatelli, Miss. Laura Mabel
	311	Hays, Miss. Margaret Bechstein
	312	Ryerson, Miss. Emily Borie
	316	Nilsson, Miss. Helmina Josefina
	317	Kantor, Mrs. Sinai (Miriam Sternin)
	319	Wick, Miss. Mary Natalie
	320	Spedden, Mrs. Frederic Oakley (Margaretta Corning Stone)
	323	Slayter, Miss. Hilda Mary
	324	Caldwell, Mrs. Albert Francis (Sylvia Mae Harbaugh)
	326	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)
	338 339	Burns, Miss. Elizabeth Margaret 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	Bowerman, Miss. Elsie Edith
##	359	McGovern, Miss. Mary
##	360	Mockler, Miss. Helen Mary "Ellie"
##	367	Warren, Mrs. Frank Manley (Anna Sophia Atkinson)
##	368	Moussa, Mrs. (Mantoura Boulos)
	369	Jermyn, Miss. Annie
	370	Aubart, Mme. Leontine Pauline
	371	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")
	384 388	Holverson, Mrs. Alexander Oskar (Mary Aline Towner) 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)
	431 432	Bjornstrom-Steffansson, Mr. Mauritz Hakan Thornoveroft Mrs. Porcival (Floronce Kate White)
	432	Thorneycroft, Mrs. Percival (Florence Kate White) 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
	473 474	West, Mrs. Edwy Arthur (Ada Mary Worth)
	480	Jerwan, Mrs. Amin S (Marie Marthe Thuillard)
	484	Hirvonen, Miss. Hildur E Turkula, Mrs. (Hedwig)
	485	Bishop, Mr. Dickinson H
	487	Hoyt, Mrs. Frederick Maxfield (Jane Anne Forby)
	490	Coutts, Master. Eden Leslie "Neville"
	497	Eustis, Miss. Elizabeth Mussey
	505	Maioni, Miss. Roberta
	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
	541 544	Crosby, Miss. Harriet R
	547	Beane, Mr. Edward Beane, Mrs. Edward (Ethel Clarke)
	548	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	Stephenson, Mrs. Walter Bertram (Martha Eustis)

	597	Leitch, Miss. Jessie Wills
	600	Duff Gordon, Sir. Cosmo Edmund ("Mr Morgan")
	601	Jacobsohn, Mrs. Sidney Samuel (Amy Frances Christy)
	605	Homer, Mr. Harry ("Mr E Haven")
	608	Daniel, Mr. Robert Williams
	609	Laroche, Mrs. Joseph (Juliette Marie Louise Lafargue)
	610	Shutes, Miss. Elizabeth W
	613 616	Murphy, Miss. Margaret Jane
	619	Herman, Miss. Alice 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	Turja, Miss. Anna Sofia
	680	Cardeza, Mr. Thomas Drake Martinez
	682	Hassab, Mr. Hammad
	690	Madill, Miss. Georgette Alexandra
	691 692	Dick, Mr. Albert Adrian
	693	Karun, Miss. Manca Lam, Mr. Ali
	698	Mullens, Miss. Katherine "Katie"
	701	Astor, Mrs. John Jacob (Madeleine Talmadge Force)
	701	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

## 74	Ryerson, Miss. Susan Parker "Suzette"
## 74	,
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## 82	
## 82	8 Mallet, Master. Andre
## 82	9 McCormack, Mr. Thomas Joseph
## 83	O Stone, Mrs. George Nelson (Martha Evelyn)
## 83	Yasbeck, Mrs. Antoni (Selini Alexander)
## 83	Richards, Master. George Sibley
## 83	6 Compton, Miss. Sara Rebecca
## 83	<u>.</u>
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## 87 ## 88	<b>5</b> ·
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##		Sex	_	SibSp		Ticket	Fare	Cabin
##		female		1	0	PC 17599	71.2833	C85
##		female		0	0	STON/02. 3101282	7.9250	
##		female		1	0	113803	53.1000	C123
##		female		0	2	347742	11.1333	
##		female		1	0	237736	30.0708	90
##		female		1	1	PP 9549	16.7000	G6
	12	female		0	0	113783	26.5500	C103
##		female		0	0	248706	16.0000	
##	18	male	NA NA	0	0	244373 2649	13.0000	
##		female	NA 34.00	0	0	248698	7.2250 13.0000	D56
##		female		0	0	330923	8.0292	D30
##			28.00			113788	35.5000	A6
##		female		0	0 5	347077	31.3875	AO
##		female	NA	1	0	330959	7.8792	
##		female	NA	1	0	PC 17569		В78
##		female	NA	0	0	335677	7.7500	БТО
##		male	NA	0	0	2677	7.7300	
##		female		1	0	2651	11.2417	
	44	female	3.00	1	2	SC/Paris 2123	41.5792	
##		female		0	0	330958	7.8792	
##		female	NA	0	0	14311	7.7500	
##		female		1	0	PC 17572	76.7292	D33
##		female		1	0	2926	26.0000	200
##		male	NA	0	0	19947	35.5000	C52
	57	female		0	0	C.A. 31026	10.5000	002
##		female		1	2	C.A. 34651	27.7500	
##		female		0	0	113572	80.0000	B28
##		male	NA	1	1	2661	15.2458	
##	67	female	29.00	0	0	C.A. 29395	10.5000	F33
##	69	female		4	2	3101281	7.9250	
##	75		32.00	0	0	1601	56.4958	
##	79	male	0.83	0	2	248738	29.0000	
##	80	female	30.00	0	0	364516	12.4750	
##	82	male	29.00	0	0	345779	9.5000	
##	83	female	NA	0	0	330932	7.7875	
##	85	female	17.00	0	0	SO/C 14885	10.5000	
##	86	${\tt female}$	33.00	3	0	3101278	15.8500	
##	89	${\tt female}$	23.00	3	2	19950	263.0000	C23 C25 C27
##	98	male	23.00	0	1	PC 17759	63.3583	D10 D12
##	99	${\tt female}$	34.00	0	1	231919	23.0000	
##	107	${\tt female}$	21.00	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	
	128		24.00	0	0	C 17369	7.1417	
		female	NA	1	1	2668	22.3583	F E69
		female		1	0	228414	26.0000	
		female		0	2	11752	26.2833	D47
		female		0	0	347081	7.7500	
		female		1	0	STON/02. 3101279	15.8500	
##	147	male	27.00	0	0	350043	7.7958	

##	152	female	22.00	1	0	113776	66.6000	C2
##	157	${\tt female}$	16.00	0	0	35851	7.7333	
##	162	${\tt female}$	40.00	0	0	C.A. 33595	15.7500	
##	166	male	9.00	0	2	363291	20.5250	
##	167	${\tt female}$	NA	0	1	113505	55.0000	E33
##	173	${\tt female}$	1.00	1	1	347742	11.1333	
##	184	male	1.00	2	1	230136	39.0000	F4
##	185	${\tt female}$	4.00	0	2	315153	22.0250	
##	187	${\tt female}$	NA	1	0	370365	15.5000	
##	188	male	45.00	0	0	111428	26.5500	
##	191	${\tt female}$	32.00	0	0	234604	13.0000	
##	193	${\tt female}$	19.00	1	0	350046	7.8542	
##	194	male	3.00	1	1	230080	26.0000	F2
##	195	${\tt female}$	44.00	0	0	PC 17610	27.7208	B4
##	196	${\tt female}$	58.00	0	0	PC 17569	146.5208	B80
##	199	${\tt female}$	NA	0	0	370370	7.7500	
##	205	male	18.00	0	0	A/5 3540	8.0500	
##	208	male	26.00	0	0	2699	18.7875	
##	209	${\tt female}$	16.00	0	0	367231	7.7500	
##	210	male	40.00	0	0	112277	31.0000	A31
##	212	${\tt female}$	35.00	0	0	F.C.C. 13528	21.0000	
##	216	${\tt female}$	31.00	1	0	35273	113.2750	D36
##	217	${\tt female}$	27.00	0	0	STON/02. 3101283	7.9250	
##	219	${\tt female}$	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		0	2	250649	14.5000	
	249		37.00	1	1	11751	52.5542	D35
##	256	female	29.00	0	2	2650	15.2458	
		female	NA	0	0	PC 17585		
		female		0	0	110152		B77
		female		0	0	PC 17755		
		female		0	1	230433	26.0000	
	262	male	3.00	4	2	347077		
	268		25.00	1	0	347083	7.7750	24.05
		female		0	1	PC 17582		C125
		female		0	0		135.6333	C99
	272		25.00	0	0	LINE	0.0000	
		female		0	1	250644	19.5000	
		female	NA	0	0	370375	7.7500	D7
		female		1	0	13502	77.9583	D7
		female		1	1	C.A. 2673	20.2500	
	284		19.00	0	0	A/5. 10482	8.0500	
	287		30.00	0	0	345774	9.5000	
	289		42.00	0	0	237798	13.0000	
		female		0	0	370373	7.7500	
		female female		0	0	19877	78.8500	B49
				1	0	11967	91.0792	
##	299	male	NA	0	0	19988	30.5000	C106

##	200	famala	E0 00	^	1	DC 17EE0 247 E200 DE0 DC0
		female female	NA	0	1	
	302	male	NA	2	0	
		female	NA	0	0	
	306	male	0.92	1	2	
		female	NA	0	0	
		female		1	0	
		female		0	0	
		female		0	0	
		female		2	2	
		female		0	0	
		female		1	0	
		female		0	2	
		female		1	1	
		female		0	0	
		female		1	1	
		female		0	0	
		female		0	0	
		female		1	1	
		female		0	1	
		female	NA	2	0	
		female	NA	1	0	
		female		0	0	
	339		45.00	0	0	
	341	male	2.00	1	1	
		female		3	2	
		female		0	0	
		female		0	0	
		female	NA	1	0	
	349	male	3.00	1	1	
		female		0	1	
		female	NA	0	0	
		female	NA	0	0	
		female		1	0	
		female	NA	0	0	
		female	NA	0	0	14313 7.7500
		female		0	0	PC 17477 69.3000 B35
	371		25.00	1	0	
		female		1	0	
		female		0	0	
		female		0	0	
		female		0	2	
		female		1	0	
		female		0	0	
		female		0	0	
	391		36.00	1	2	
		male		0	0	
		female		1	0	
		female		0	2	
		female		0	0	
	401		39.00	0	0	
	408		3.00	1	1	
		female		1	0	
	415		44.00	0	0	

##	417	female	34.00	1	1	28220	32.5000	
##	418	${\tt female}$	18.00	0	2	250652	13.0000	
##	427	${\tt female}$	28.00	1	0	2003	26.0000	
##	428	${\tt female}$	19.00	0	0	250655	26.0000	
##	430	male	32.00	0	0	SOTON/O.Q. 392078	8.0500	E10
##	431	male	28.00	0	0	110564	26.5500	C52
##	432	${\tt female}$	NA	1	0	376564	16.1000	
##	433	${\tt female}$	42.00	1	0	SC/AH 3085	26.0000	
##	436	female	14.00	1	2	113760	120.0000	B96 B98
##	438	${\tt female}$	24.00	2	3	29106	18.7500	
##	441	female	45.00	1	1	F.C.C. 13529	26.2500	
##	444	female	28.00	0	0	230434	13.0000	
##	445	male	NA	0	0	65306	8.1125	
##	446	male	4.00	0	2	33638	81.8583	A34
##	447	female	13.00	0	1	250644	19.5000	
##	448	male	34.00	0	0	113794	26.5500	
##	449	female	5.00	2	1	2666	19.2583	
##	450	male	52.00	0	0	113786	30.5000	C104
##	454	male	49.00	1	0	17453	89.1042	C92
##	456	male	29.00	0	0	349240	7.8958	
##	458	female	NA	1	0	17464	51.8625	D21
##	459	female	50.00	0	0	F.C.C. 13531	10.5000	
##	461	male	48.00	0	0	19952	26.5500	E12
##	470	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	63.00	0	0	4134	9.5875	
##	485	male	25.00	1	0	11967	91.0792	B49
##	487	female		1	0	19943	90.0000	C93
	490	male	9.00	1	1	C.A. 37671	15.9000	
##	497	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	
	513		36.00	0	0	PC 17473	26.2875	E25
		female		1	0	PC 17603	59.4000	
		female		0	0	C.A. 34260	10.5000	F33
		female		1	0	226875	26.0000	
		female		0	0	12749	93.5000	B73
		female		0	1	111361	57.9792	B18
		female		0	0	W./C. 14258	10.5000	
		female	2.00	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	PC 17761		
		female		0	2	13568	49.5000	B39
		female		0	2	WE/P 5735	71.0000	B22
	544		32.00	1	0	2908	26.0000	522
		female		1	0	2908	26.0000	
	548	male	NA	0	0	SC/PARIS 2146	13.8625	
	550	male	8.00	1	1	C.A. 33112	36.7500	
11		mare	5.00	_	_	0.11. 00112	55.1500	

	551		17.00	0	2		110.8833	C70
	554		22.00	0	0	2620	7.2250	
		female		0	0	347085	7.7750	A 1 C
		female		1	0	11755 110413	39.6000 79.6500	A16
		female female		1 1	1	345572	17.4000	E67
	570		32.00	0	0	350417	7.8542	
	571		62.00	0	0	S.W./PP 752	10.5000	
		female		2	0	11769	51.4792	C101
	573		36.00	0	0	PC 17474	26.3875	E25
		female	NA	0	0	14312	7.7500	1120
##		female		0	0	243880	13.0000	
##		female		1	0	13507	55.9000	E44
	580		32.00	0	0	STON/O 2. 3101286	7.9250	211
		female		1	1	237789	30.0000	
##		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
##	601	female	24.00	2	1	243847	27.0000	
##	605	male	35.00	0	0	111426	26.5500	
##	608	male	27.00	0	0	113804	30.5000	
##	609	female	22.00	1	2	SC/Paris 2123	41.5792	
##	610	female	40.00	0	0	PC 17582	153.4625	C125
##	613	female	NA	1	0	367230	15.5000	
##	616	female	24.00	1	2	220845	65.0000	
##	619	female	4.00	2	1	230136	39.0000	F4
##	622	male	42.00	1	0	11753	52.5542	D19
##	623	male	20.00	1	1	2653	15.7417	
##	628	${\tt female}$	21.00	0	0	13502	77.9583	D9
##	631	male	80.00	0	0	27042	30.0000	A23
##	633	male	32.00	0	0	13214	30.5000	B50
##	636	${\tt female}$	28.00	0	0	237668	13.0000	
##	642	${\tt female}$	24.00	0	0	PC 17477	69.3000	B35
##	644	male	NA	0	0	1601	56.4958	
##	645	${\tt female}$	0.75	2	1	2666	19.2583	
##	646	male	48.00	1	0	PC 17572	76.7292	D33
##	648	male	56.00	0	0	13213	35.5000	A26
##	650	female	23.00	0	0	CA. 2314	7.5500	
##	652	female	18.00	0	1	231919	23.0000	
		female	NA	0	0	330919	7.8292	
	661		50.00	2	0	PC 17611		
	665		20.00	1	0	STON/O 2. 3101285	7.9250	
		female	NA	1	0	19996	52.0000	C126
		female		1	1	29750	39.0000	
	674		31.00	0	0	244270	13.0000	
		female		0	0	4138	9.8417	
	680		36.00	0	1	PC 17755		B51 B53 B55
	682		27.00	0	0	PC 17572	76.7292	D49
		female		0	1		211.3375	B5
	691		31.00	1	0	17474	57.0000	B20
##	692	female	4.00	0	1	349256	13.4167	

шш	602		AT A	0	^	1601	EC 40E0	
	693	male	NA	0	0	1601	56.4958	
		female	NA	0	0	35852	7.7333	000 004
		female		1	0	PC 17757		C62 C64
	702		35.00	0	0	PC 17475	26.2875	E24
##	707	female		0	0	223596	13.5000	
##	708	male	42.00	0	0	PC 17476	26.2875	E24
##	709	${\tt female}$	22.00	0	0	113781	151.5500	
##	710	${\tt male}$	NA	1	1	2661	15.2458	
##	711	${\tt female}$	24.00	0	0	PC 17482	49.5042	C90
##	713	male	48.00	1	0	19996	52.0000	C126
##	717	female	38.00	0	0	PC 17757	227.5250	C45
##	718	female	27.00	0	0	34218	10.5000	E101
##	721	female	6.00	0	1	248727	33.0000	
##	725		27.00	1	0	113806		E8
		female		3	0	31027	21.0000	
##		female	NA	0	0	36866	7.7375	
		female		0	0		211.3375	B5
	738		35.00	0	0	PC 17755		B101
						16988	30.0000	D45
	741	male	NA	0	0			
		female		2	2			B57 B59 B63 B66
	745		31.00	0	0	STON/O 2. 3101288	7.9250	
		female		0	0	250648	13.0000	
		female	4.00	1	1	29103	23.0000	
	752	male	6.00	0	1	392096	12.4750	E121
##	755	female	48.00	1	2	220845		
##	756	male	0.67	1	1	250649	14.5000	
##	760	${\tt female}$	33.00	0	0	110152	86.5000	B77
##	763	male	20.00	0	0	2663	7.2292	
##	764	female	36.00	1	2	113760	120.0000	B96 B98
##	766	female	51.00	1	0	13502	77.9583	D11
##	775	female	54.00	1	3	29105	23.0000	
##	778	female	5.00	0	0	364516	12.4750	
##	780	female	43.00	0	1	24160	211.3375	В3
##	781	female	13.00	0	0	2687	7.2292	
##		female		1	0	17474	57.0000	B20
##		female		0	0	3101265	7.4958	220
	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							DOC DOO
			11.00	1	2		120.0000	B96 B98
	804	male	0.42	0	1	2625	8.5167	
	805		27.00	0	0	347089	6.9750	FO
		female		1	0	113806		E8
		female		1	1	12749	93.5000	B69
	822		27.00	0	0	315098	8.6625	
		female		0	1	392096	12.4750	E121
	828	male	1.00	0	2	S.C./PARIS 2079	37.0042	
##	829	male	NA	0	0	367228	7.7500	
##	830	${\tt female}$	62.00	0	0	113572	80.0000	B28
##	831	${\tt female}$	15.00	1	0	2659	14.4542	
##	832	male	0.83	1	1	29106	18.7500	
##	836	female	39.00	1	1	PC 17756	83.1583	E49
##	839	male	32.00	0	0	1601	56.4958	

	840	male	NA	0	0	11774		C47
		female		0	0	113798		g0.0
		female	NA	1	0	17453		C92
		female		0	1	PC 17592		D28
		female		0	1	392091	9.3500	
		female		1	1		164.8667	P47
	858		51.00	0	0	113055	26.5500	E17
		female		0	3	2666	19.2583	D17
		female		0	0	17466	25.9292	D17
		female female		0	0	236852 SC/PARIS 2149	13.0000	
	870		4.00	1	1	347742		
		female		1	1	11751	11.1333 52.5542	D35
		female		1	0	P/PP 3381	24.0000	D35
		female		0	0	2667	7.2250	
		female		0	1	11767	83.1583	C50
		female		0	1	230433		030
		female		0	0	112053		B42
	890		26.00	0	0	111369		C148
##	030	Embarke		O	O	111303	30.0000	0140
##	2	LIIDAIK	C					
##			S					
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##	59		S					
##	62							
##	66		C					
##	67		S					
##	69		S					
##	75		S					
##	79		S					
##	80		S					

##	82	S
##	83	Q
##	85	S
##	86	S
##	89	S
##	98	C
##	99	S
##	107	S
##	108	S
##	110	Q
##	124	S
##	126	C
##	128	S
##	129	C
##	134	S S
##	137 142	S S
##	143	S
##	143	S
##	152	S
##	157	Q
##	162	S
##	166	S
##	167	S
##	173	S
##	184	S
##	185	S
##	187	Q
##	188	S
##	191	S
##	193	S
##	194	S
##	195	C
##	196	C
##	199	Q
##	205	S
##	208	C
##	209	Q
##	210	C
##	212	S
##	216	C
##	<ul><li>217</li><li>219</li></ul>	S C
##	219	S
##	225	S
##	227	S
##	231	S
##	234	S
##	238	S
##	242	Q
##	248	S
##	249	S
##	256	C
##	257	C

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

	000	_
##	369	Q
##	370	С
##	371	С
##	376	С
##	377	S
##	381	С
##	382	С
##	384	S
##	388	S
##	390	С
##	391	S
##	392	S
##	394	С
##	395	S
##	400	S
##	401	S
##	408	S
##	413	Q
##	415	S
##	417	S
##	418	S
##	427	S
##	428	S
##	430	S
##	431	S
##	432	S
##	433	S
##	436	S
##	438	S
##	441	S
##	444	S
##	445	S
##	446	S
##	447	S
##	448	S
##	449	C
##	450	S
##	454	C
##	456	С
##	458	S
##	459	S
##	461	S
##	470	C
##	473	S
##	474	C
##	480	S
##	484	S
##	485	C
##	487	S
	490	S
##		S C
##	497	S
##	505 507	S
##	507	
##	508	S

## ##	510 511	S Q
##	513	S
##	514	C
##	517	S
##	519	S S
##	521 524	C
##	527	S
##	531	S
##	534	C
##	536	S
##	538	С
##	540	С
##	541	S
##	544	S
##	547	S
##	548	C
##	550	S
##	551	C
##	554 555	C S
##	557	C
##	559	S
##	560	S
##	570	S
##	571	S
##	572	S
##	573	S
##	574	Q
##	577	S
##	578	S
##	580	S
##	581 582	S C
##	586	S
##	588	C
##	592	C
##	597	S
##	600	С
##	601	S
##	605	С
##	608	S
##	609	С
##	610	S
##	613	Q
##	616	S
##	619 622	S S
##	623	S C
##	628	S
##	631	S
##	633	C
##	636	S

##	642	C
##	644 645	S C
##	646	C
##	648	C
##	650	S
##	652	S
##	654	Q
##	661	S
##	665	S
##	670	S
##	671	S
##	674	S
##	678	S
##	680	С
##	682	С
##	690	S
##	691	S
##	692	C
##	693	S
##	698	Q
##	701	C
##	702	S S
##	707 708	S
##	709	S
##	710	C
##	711	C
##	713	S
##	717	С
##	718	S
##	721	S
##	725	S
##	727	S
##	728	Q
##	731	S
##	738	C
##	741	S
##	743	C
##	745	S
##	748 751	S S
##	752	S
##	755	S
##	756	S
##	760	S
##	763	C
##	764	S
##	766	S
##	775	S
##	778	S
##	780	S
##	781	С
##	782	S

```
## 787
               S
## 789
               S
               S
## 797
## 798
               S
## 802
               S
               S
## 803
## 804
               С
## 805
               S
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               S
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## 824
               S
## 828
               С
## 829
               Q
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## 831
## 832
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## 836
## 839
               S
               С
## 840
## 843
               С
               С
## 850
## 854
               S
## 856
               S
               S
## 857
               S
## 858
               С
## 859
## 863
               S
## 866
               S
## 867
               С
               S
## 870
## 872
               \mathsf{S}
## 875
               С
## 876
               С
               С
## 880
## 881
               S
## 888
               S
## 890
               С
dead <- subset(titanic_data, Survived == 0)</pre>
dead
##
       PassengerId Survived Pclass
## 1
                  1
                            0
                                    3
## 5
                  5
                             0
                                    3
## 6
                  6
                             0
                                    3
## 7
                  7
                             0
                                    1
## 8
                  8
                             0
                                    3
                             0
                                    3
## 13
                 13
## 14
                 14
                             0
                                    3
                                    3
## 15
                 15
                             0
## 17
                                    3
                 17
                             0
## 19
                 19
                             0
                                    3
## 21
                 21
                                    2
                             0
## 25
                 25
                             0
                                    3
```

	07	07	^	_
##	27	27	0	3
##	28	28	0	1
##	30	30	0	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	0	3
##	50	50	0	3
##	51	51	0	3
##	52	52	0	3
##	55	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	1
##	94	94	0	3
##	95	95	0	3
##	96	96	0	3
##	97	97	0	1
##	100	100	0	2
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##	102	102	0	3
##	103	103	0	1
##	104	104	0	3
##	105	105	0	3
##	106	106	0	3
##	109	109	0	3

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##	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	0	3
##	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
##	150	150	0	2
##	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	164	0	3
##	165	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
##	174	174	0	1
##	176	175	0	3
##	177	177	0	3
##	177		0	3 1
		178		2
##	179	179	0	2

##	180	180	0	3
##	181	181	0	3
##	182	182	0	2
##	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			2
##		218	0	
##	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
##	236	236	0	3
##	237	237	0	2
##	239	239	0	2
##	240	240	0	2
##	241	241	0	3
##	243	243	0	2
##	244	244	0	3
##	245	245	0	3
##	246	246	0	1
##	247	247	0	3
##	250	250	0	2
##	251	251	0	3
##	252	252	0	3
##	253	253	0	1
##				
	254	254	0	3
##	255	255	0	3
##	261	261	0	3
##	263	263	0	1
##	264	264	0	1
##	265	265	0	3
##	266	266	0	2
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##	792	792	0	2
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##	794	794	0	1
##	795	795	0	3
##	796	796	0	2
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##	809	809	0	2
##	811	811	0	3
##	011	011	U	S

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	848 849	848	0	3							
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	853	853	0	3							
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	884	884	0	2							
	885	885	0	3							
	886	886	0	3							
	887	887	0	2							
	889	889	0	3							
##	891	891	0	3							
##							N	ame	Sex	Age	${\tt SibSp}$
##	1				Braund,	Mr.	Owen Har	ris	male	22.0	1
##	5				Allen, Mr	c. Wi	lliam He	nry	male	35.0	0

```
## 6
                                                  Moran, Mr. James
                                                                      male
## 7
                                           McCarthy, Mr. Timothy J
                                                                      male 54.0
                                                                                     0
## 8
                                   Palsson, Master. Gosta Leonard
                                                                      male 2.0
                                                                                     3
                                   Saundercock, Mr. William Henry
## 13
                                                                      male 20.0
                                                                                     0
## 14
                                      Andersson, Mr. Anders Johan
                                                                      male 39.0
                                                                                     1
## 15
                             Vestrom, Miss. Hulda Amanda Adolfina female 14.0
                                                                                     0
## 17
                                              Rice, Master. Eugene
                                                                      male 2.0
## 19
         Vander Planke, Mrs. Julius (Emelia Maria Vandemoortele) female 31.0
                                                                                     1
## 21
                                              Fynney, Mr. Joseph J
                                                                      male 35.0
                                                                                     0
## 25
                                    Palsson, Miss. Torborg Danira female 8.0
                                                                                     3
## 27
                                           Emir, Mr. Farred Chehab
                                                                      male
                                                                                     0
                                                                             NA
## 28
                                   Fortune, Mr. Charles Alexander
                                                                                     3
                                                                      male 19.0
## 30
                                               Todoroff, Mr. Lalio
                                                                      male
                                                                             NA
                                                                                     0
                                          Uruchurtu, Don. Manuel E
## 31
                                                                      male 40.0
## 34
                                             Wheadon, Mr. Edward H
                                                                      male 66.0
                                                                                     0
## 35
                                           Meyer, Mr. Edgar Joseph
                                                                      male 28.0
## 36
                                   Holverson, Mr. Alexander Oskar
                                                                      male 42.0
                                                                                     1
## 38
                                          Cann, Mr. Ernest Charles
                                                                      male 21.0
## 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
                                                                      male
## 46
                                          Rogers, Mr. William John
                                                                      male
                                                                             NA
                                                                                     0
                                                 Lennon, Mr. Denis
## 47
                                                                      male
                                                                             NA
                                                                                     1
## 49
                                               Samaan, Mr. Youssef
                                                                      male
                                                                             NA
## 50
                    Arnold-Franchi, Mrs. Josef (Josefine Franchi) female 18.0
                                                                                     1
## 51
                                        Panula, Master. Juha Niilo
                                                                      male 7.0
                                                                                     4
                                                                      male 21.0
## 52
                                     Nosworthy, Mr. Richard Cater
                                                                                     0
## 55
                                                                      male 65.0
                                                                                     0
                                   Ostby, Mr. Engelhart Cornelius
## 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
## 64
                                             Skoog, Master. Harald
                                                                      male 4.0
                                                                                     3
                                                                      male
## 65
                                             Stewart, Mr. Albert A
                                                                                     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
## 73
                                                                                     0
                                              Hood, Mr. Ambrose Jr
                                                                      male 21.0
## 74
                                      Chronopoulos, Mr. Apostolos
                                                                      male 26.0
## 76
                                           Moen, Mr. Sigurd Hansen
                                                                      male 25.0
                                                                                     0
## 77
                                                 Staneff, Mr. Ivan
                                                                      male
                                                                             NA
                                                                                     0
## 78
                                          Moutal, Mr. Rahamin Haim
                                                                      male
                                                                             NA
                                                                                     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
                                                                             NA
                                                                                     0
## 90
                                            Celotti, Mr. Francesco
                                                                      male 24.0
                                                                                     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
                                           Dean, Mr. Bertram Frank
## 94
                                                                      male 26.0
                                                                                     1
## 95
                                                 Coxon, Mr. Daniel
                                                                      male 59.0
```

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## 96
                                      Shorney, Mr. Charles Joseph
                                                                      male
## 97
                                         Goldschmidt, Mr. George B
                                                                      male 71.0
                                                                                     0
                                                 Kantor, Mr. Sinai
## 100
                                                                      male 34.0
## 101
                                           Petranec, Miss. Matilda female 28.0
                                                                                     0
                                 Petroff, Mr. Pastcho ("Pentcho")
## 102
                                                                      male
                                                                             NA
## 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
                                                                                     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
                                                                                     0
## 114
                                           Jussila, Miss. Katriina female 20.0
## 115
                                             Attalah, Miss. Malake female 17.0
## 116
                                             Pekoniemi, Mr. Edvard
                                                                      male 21.0
## 117
                                              Connors, Mr. Patrick
                                                                      male 70.5
                                                                                     0
## 118
                                  Turpin, Mr. William John Robert
                                                                      male 29.0
## 119
                                         Baxter, Mr. Quigg Edmond
                                                                      male 24.0
                                                                                     0
## 120
                                Andersson, Miss. Ellis Anna Maria female 2.0
                                                                                     4
## 121
                                      Hickman, Mr. Stanley George
                                                                      male 21.0
                                                                                     2
## 122
                                       Moore, Mr. Leonard Charles
                                                                      male
                                                                             NA
## 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
                                                                                     0
## 131
                                              Drazenoic, Mr. Jozef
                                                                      male 33.0
                                                                                     0
                                   Coelho, Mr. Domingos Fernandeo
## 132
                                                                      male 20.0
                                                                                     0
## 133
                  Robins, Mrs. Alexander A (Grace Charity Laury) female 47.0
## 135
                                   Sobey, Mr. Samuel James Hayden
                                                                      male 25.0
                                                                                     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
                                                                                     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
## 148
                                 Ford, Miss. Robina Maggie "Ruby" female 9.0
## 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
                                                                                     0
## 154
                                  van Billiard, Mr. Austin Blyler
                                                                      male 40.5
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## 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
                                               Smiljanic, Mr. Mile
                                                                      male
                                                                                     0
## 160
                                       Sage, Master. Thomas Henry
                                                                      male
                                                                             NA
                                                                                     8
## 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
                                                                      male 28.0
## 170
                                                     Ling, Mr. Lee
                                                                                     0
                                         Van der hoef, Mr. Wyckoff
## 171
                                                                      male 61.0
                                              Rice, Master. Arthur
## 172
                                                                      male 4.0
                                                                                     4
## 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
                                    Lefebre, Master. Henry Forbes
## 177
                                                                      male
                                                                              NA
                                                                                     3
## 178
                                        Isham, Miss. Ann Elizabeth female 50.0
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## 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
                                                                                     0
                                                                      male
                                                                             NA
## 183
                            Asplund, Master. Clarence Gustaf Hugo
                                                                      male
                                                                            9.0
## 186
                                             Rood, Mr. Hugh Roscoe
                                                                      male
                                                                              NA
                                                                                     0
## 189
                                                  Bourke, Mr. John
                                                                      male 40.0
## 190
                                               Turcin, Mr. Stjepan
                                                                      male 36.0
                                                                                     0
## 192
                                             Carbines, Mr. William
                                                                      male 19.0
## 197
                                               Mernagh, Mr. Robert
                                                                      male
                                                                             NA
                                                                                     0
## 198
                                 Olsen, Mr. Karl Siegwart Andreas
                                                                      male 42.0
## 200
                           Yrois, Miss. Henriette ("Mrs Harbeck") female 24.0
                                                                                     Λ
## 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
                                                                                     0
## 206
                                        Strom, Miss. Telma Matilda female 2.0
                                                                                     0
## 207
                                        Backstrom, Mr. Karl Alfred
                                                                      male 32.0
                                                                                     1
## 211
                                                    Ali, Mr. Ahmed
                                                                      male 24.0
                                                                                     0
## 213
                                                                      male 22.0
                                            Perkin, Mr. John Henry
                                                                                     0
## 214
                                       Givard, Mr. Hans Kristensen
                                                                      male 30.0
                                                                                     0
## 215
                                               Kiernan, Mr. Philip
                                                                      male
## 218
                                      Jacobsohn, Mr. Sidney Samuel
                                                                      male 42.0
                                                                                     1
## 220
                                                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
## 230
                                           Lefebre, Miss. Mathilde female
                                                                                     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
                                                                                     0
## 236
                                     Harknett, Miss. Alice Phoebe female
                                                                                     0
                                                                             NA
## 237
                                                 Hold, Mr. Stephen
                                                                      male 44.0
                                                                                     1
                                  Pengelly, Mr. Frederick William
## 239
                                                                      male 19.0
                                                                                     0
## 240
                                            Hunt, Mr. George Henry
                                                                      male 33.0
                                                                                     0
## 241
                                             Zabour, Miss. Thamine female
                                                                                     1
## 243
                                  Coleridge, Mr. Reginald Charles
                                                                      male 29.0
                                                                                     0
## 244
                                    Maenpaa, Mr. Matti Alexanteri
                                                                      male 22.0
                                                                                     0
## 245
                                              Attalah, Mr. Sleiman
                                                                      male 30.0
                                                                                     0
                                                                                     2
## 246
                                       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
```

```
## 251
                                            Reed, Mr. James George
                                                                      male
## 252
                      Strom, Mrs. Wilhelm (Elna Matilda Persson) female 29.0
## 253
                                         Stead, Mr. William Thomas
                                                                      male 62.0
## 254
                                         Lobb, Mr. William Arthur
                                                                      male 30.0
                                                                                     1
                         Rosblom, Mrs. Viktor (Helena Wilhelmina) female 41.0
## 255
## 261
                                                 Smith, Mr. Thomas
                                                                      male
                                                                                     0
                                                                             NA
## 263
                                                 Taussig, Mr. Emil
                                                                      male 52.0
## 264
                                             Harrison, Mr. William
                                                                      male 40.0
                                                                                     0
## 265
                                                Henry, Miss. Delia female
                                                                                     0
## 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
                                      Parkes, Mr. Francis "Frank"
## 278
                                                                      male
                                                                             NA
                                                                                     0
## 279
                                                Rice, Master. Eric
                                                                      male 7.0
## 281
                                                  Duane, Mr. Frank
                                                                      male 65.0
                                                                                     0
## 282
                                 Olsson, Mr. Nils Johan Goransson
                                                                      male 28.0
## 283
                                         de Pelsmaeker, Mr. Alfons
                                                                      male 16.0
                                                                                     0
## 285
                                        Smith, Mr. Richard William
                                                                      male
## 286
                                               Stankovic, Mr. Ivan
                                                                      male 33.0
                                                                                     Λ
## 288
                                              Naidenoff, Mr. Penko
                                                                      male 22.0
## 293
                                                                      male 36.0
                                            Levy, Mr. Rene Jacques
                                                                                     0
                                               Haas, Miss. Aloisia female 24.0
## 294
## 295
                                                  Mineff, Mr. Ivan
                                                                      male 24.0
## 296
                                                 Lewy, Mr. Ervin G
                                                                      male
                                                                             NA
                                                                                     0
## 297
                                                Hanna, Mr. Mansour
                                                                      male 23.5
                                                                                     0
## 298
                                      Allison, Miss. Helen Loraine female 2.0
                                                                                     1
## 303
                                  Johnson, Mr. William Cahoone Jr
                                                                      male 19.0
## 305
                                Williams, Mr. Howard Hugh "Harry"
                                                                      male
                                                                                     0
                                                                             NA
## 309
                                               Abelson, Mr. Samuel
                                                                      male 30.0
## 313
                            Lahtinen, Mrs. William (Anna Sylfven) female 26.0
## 314
                                            Hendekovic, Mr. Ignjac
                                                                      male 28.0
## 315
                                                Hart, Mr. Benjamin
                                                                      male 43.0
                                                                                     1
## 318
                                              Moraweck, Dr. Ernest
                                                                      male 54.0
                                                                                     0
                                                Dennis, Mr. Samuel
## 321
                                                                      male 22.0
                                                                                     0
## 322
                                                  Danoff, Mr. Yoto
                                                                      male 27.0
## 325
                                          Sage, Mr. George John Jr
                                                                      male
                                                                                     8
                                                                             NΑ
## 327
                                         Nysveen, Mr. Johan Hansen
                                                                      male 61.0
## 332
                                                                      male 45.5
                                               Partner, Mr. Austen
                                                                                     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
                                                                                     0
## 337
                                         Pears, Mr. Thomas Clinton
                                                                      male 29.0
                                                                                     1
## 340
                                     Blackwell, Mr. Stephen Weart
                                                                      male 45.0
                                        Collander, Mr. Erik Gustaf
## 343
                                                                      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
                                                                                     0
                                                                      male 23.0
## 351
                                            Odahl, Mr. Nils Martin
                                                                                     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
## 355
                                                 Yousif, Mr. Wazli
                                                                      male
```

```
## 356
                                      Vanden Steen, Mr. Leo Peter
                                                                      male 28.0
## 358
                                         Funk, Miss. Annie Clemmer female 38.0
                                                                                     0
                                                Skoog, Mr. Wilhelm
                                                                      male 40.0
## 361
## 362
                                         del Carlo, Mr. Sebastiano
                                                                      male 29.0
## 363
                                  Barbara, Mrs. (Catherine David) female 45.0
## 364
                                                   Asim, Mr. Adola
                                                                      male 35.0
                                                                                     0
## 365
                                               O'Brien, Mr. Thomas
                                                                      male
                                                                             NA
## 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
                                                                                     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
## 380
                                      Gustafsson, Mr. Karl Gideon
                                                                      male 19.0
                                                                                     0
## 383
                                                Tikkanen, Mr. Juho
                                                                      male 32.0
                                                                                     0
## 385
                                            Plotcharsky, Mr. Vasil
                                                                      male
                                                                             NA
                                                                                     0
## 386
                                         Davies, Mr. Charles Henry
                                                                      male 18.0
## 387
                                  Goodwin, Master. Sidney Leonard
                                                                      male 1.0
                                                                                     5
## 389
                                              Sadlier, Mr. Matthew
                                                                      male
                                                                                     0
## 393
                                     Gustafsson, Mr. Johan Birger
                                                                      male 28.0
                                                                                     2
## 396
                                               Johansson, Mr. Erik
                                                                      male 22.0
## 397
                                               Olsson, Miss. Elina female 31.0
                                                                                     0
## 398
                                                                      male 46.0
                                           McKane, Mr. Peter David
## 399
                                                  Pain, Dr. Alfred
                                                                      male 23.0
## 402
                                                   Adams, Mr. John
                                                                      male 26.0
                                                                                     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
## 406
                                                Gale, Mr. Shadrach
                                                                      male 34.0
                                                                                     1
## 407
                                 Widegren, Mr. Carl/Charles Peter
                                                                      male 51.0
## 409
                                Birkeland, Mr. Hans Martin Monsen
                                                                      male 21.0
                                                                                     0
## 410
                                                Lefebre, Miss. Ida female
                                                                                     3
                                                Sdycoff, Mr. Todor
## 411
                                                                                     0
                                                                      male
                                                                             NA
## 412
                                                   Hart, Mr. Henry
                                                                      male
                                                                             NA
                                                                                     0
## 414
                                   Cunningham, Mr. Alfred Fleming
                                                                      male
                                                                             NA
                                                                                     0
## 416
                          Meek, Mrs. Thomas (Annie Louise Rowley) female
## 419
                                       Matthews, Mr. William John
                                                                      male 30.0
                                                                                     0
## 420
                                         Van Impe, Miss. Catharina female 10.0
## 421
                                            Gheorgheff, Mr. Stanio
                                                                      male
                                                                                     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
                                                                                     1
## 425
                                      Rosblom, Mr. Viktor Richard
                                                                      male 18.0
                                                                                     1
## 426
                                            Wiseman, Mr. Phillippe
                                                                      male
                                                                             NA
## 429
                                                  Flynn, Mr. James
                                                                                     0
                                                                      male
                                                                             NA
## 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
                                                   Hampe, Mr. Leon
                                                                      male 20.0
                                                                                     0
## 443
                                         Petterson, Mr. Johan Emil
                                                                      male 25.0
                                                                                     1
## 451
                                             West, Mr. Edwy Arthur
                                                                      male 36.0
```

```
## 452
                                  Hagland, Mr. Ingvald Olai Olsen
                                                                      male
## 453
                                  Foreman, Mr. Benjamin Laventall
                                                                      male 30.0
                                                                                     0
                                                                      male
## 455
                                               Peduzzi, Mr. Joseph
## 457
                                         Millet, Mr. Francis Davis
                                                                      male 65.0
                                                                                     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
                                                                                     Λ
## 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
## 472
                                                   Cacic, Mr. Luka
                                                                      male 38.0
                                                                                     0
## 475
                                       Strandberg, Miss. Ida Sofia female 22.0
## 476
                                       Clifford, Mr. George Quincy
                                                                      male
                                                                              NA
                                                                                     0
## 477
                                           Renouf, Mr. Peter Henry
                                                                      male 34.0
## 478
                                         Braund, Mr. Lewis Richard
                                                                      male 29.0
                                                                                     1
## 479
                                         Karlsson, Mr. Nils August
                                                                      male 22.0
## 481
                                   Goodwin, Master. Harold Victor
                                                                      male 9.0
                                                                                     5
## 482
                                 Frost, Mr. Anthony Wood "Archie"
                                                                      male
                                                                              NA
## 483
                                          Rouse, Mr. Richard Henry
                                                                      male 50.0
                                                                                     0
## 486
                                            Lefebre, Miss. Jeannie female
                                                                              NA
                                                                                     3
## 488
                                           Kent, Mr. Edward Austin
                                                                      male 58.0
## 489
                                    Somerton, Mr. Francis William
                                                                      male 30.0
                                                                                     0
## 491
                             Hagland, Mr. Konrad Mathias Reiersen
                                                                      male
                                                                             NA
                                                                                     1
## 492
                                               Windelov, Mr. Einar
                                                                      male 21.0
                                                                                     0
## 493
                                                                      male 55.0
                                        Molson, Mr. Harry Markland
## 494
                                           Artagaveytia, Mr. Ramon
                                                                      male 71.0
## 495
                                        Stanley, Mr. Edward Roland
                                                                      male 21.0
                                                                                     0
## 496
                                             Yousseff, Mr. Gerious
                                                                      male
                                                                              NΑ
                                                                                     0
## 498
                                  Shellard, Mr. Frederick William
                                                                      male
                 Allison, Mrs. Hudson J C (Bessie Waldo Daniels) female 25.0
## 499
                                                                                     1
## 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
                                                                              NA
                                                                                     0
## 515
                                                 Coleff, Mr. Satio
                                                                      male 24.0
                                                                                     0
## 516
                                     Walker, Mr. William Anderson
                                                                      male 47.0
                                                                                     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
## 525
                                                 Kassem, Mr. Fared
                                                                      male
                                                                              NΑ
                                                                                     0
                                                Farrell, Mr. James
## 526
                                                                      male 40.5
                                                                                     0
## 528
                                                Farthing, Mr. John
                                                                      male
                                                                             NA
                                                                                     0
## 529
                                         Salonen, Mr. Johan Werner
                                                                      male 39.0
## 530
                                       Hocking, Mr. Richard George
                                                                      male 23.0
                                                                                     2
## 532
                                                 Toufik, Mr. Nakli
                                                                      male
```

```
## 533
                                              Elias, Mr. Joseph Jr
                                                                      male 17.0
## 535
                                               Cacic, Miss. Marija female 30.0
                                                                                     0
## 537
                                Butt, Major. Archibald Willingham
                                                                      male 45.0
## 539
                                         Risien, Mr. Samuel Beard
                                                                                     0
                                                                      male
                                                                             NA
## 542
                             Andersson, Miss. Ingeborg Constanzia female 9.0
                                                                                     4
## 543
                                Andersson, Miss. Sigrid Elisabeth female 11.0
## 545
                                        Douglas, Mr. Walter Donald
                                                                      male 50.0
## 546
                                     Nicholson, Mr. Arthur Ernest
                                                                      male 64.0
                                                                                     0
                                         Goldsmith, Mr. Frank John
## 549
                                                                      male 33.0
                                                                                     1
## 552
                                       Sharp, Mr. Percival James R
                                                                      male 27.0
                                                                                     0
## 553
                                              O'Brien, Mr. Timothy
                                                                      male
                                                                              NA
                                                                                     0
## 556
                                                Wright, Mr. George
                                                                      male 62.0
                                                                                     0
## 558
                                               Robbins, Mr. Victor
                                                                      male
                                                                             NA
                                                                                     0
## 561
                                          Morrow, Mr. Thomas Rowan
                                                                      male
                                                                              NA
## 562
                                                 Sivic, Mr. Husein
                                                                      male 40.0
                                                                                     0
## 563
                                        Norman, Mr. Robert Douglas
                                                                      male 28.0
## 564
                                                 Simmons, Mr. John
                                                                      male
                                                                              NΑ
                                                                                     0
## 565
                                   Meanwell, Miss. (Marion Ogden) female
                                                                                     0
## 566
                                              Davies, Mr. Alfred J
                                                                      male 24.0
                                                                                     2
## 567
                                              Stoytcheff, Mr. Ilia
                                                                      male 19.0
## 568
                      Palsson, Mrs. Nils (Alma Cornelia Berglund) female 29.0
                                                                                     0
## 569
                                               Doharr, Mr. Tannous
                                                                      male
                                                                              NA
## 575
                                     Rush, Mr. Alfred George John
                                                                      male 16.0
                                                                                     0
## 576
                                              Patchett, Mr. George
                                                                      male 19.0
## 579
                                 Caram, Mrs. Joseph (Maria Elias) female
## 583
                                        Downton, Mr. William James
                                                                      male 54.0
## 584
                                               Ross, Mr. John Hugo
                                                                      male 36.0
                                                                                     0
## 585
                                               Paulner, Mr. Uscher
                                                                      male
                                                                             NA
                                                                                     0
## 587
                                           Jarvis, Mr. John Denzil
                                                                      male 47.0
## 589
                                             Gilinski, Mr. Eliezer
                                                                      male 22.0
## 590
                                               Murdlin, Mr. Joseph
                                                                      male
                                                                              NA
                                                                                     0
## 591
                                              Rintamaki, Mr. Matti
                                                                      male 35.0
                                                                                     0
## 593
                                        Elsbury, Mr. William James
                                                                      male 47.0
## 594
                                                Bourke, Miss. Mary female
                                                                             NA
                                                                                     0
## 595
                                           Chapman, Mr. John Henry
                                                                      male 37.0
                                                                                     1
## 596
                                       Van Impe, Mr. Jean Baptiste
                                                                      male 36.0
## 598
                                               Johnson, Mr. Alfred
                                                                      male 49.0
## 599
                                                 Boulos, Mr. Hanna
                                                                      male
                                                                                     0
                                                                             NΑ
## 602
                                              Slabenoff, Mr. Petco
                                                                      male
                                                                              NΑ
## 603
                                        Harrington, Mr. Charles H
                                                                      male
                                                                              NΑ
                                                                                     0
## 604
                                         Torber, Mr. Ernst William
                                                                      male 44.0
## 606
                                    Lindell, Mr. Edvard Bengtsson
                                                                      male 36.0
                                                                                     1
## 607
                                                 Karaic, Mr. Milan
                                                                      male 30.0
                                                                                     0
## 611 Andersson, Mrs. Anders Johan (Alfrida Konstantia Brogren) female 39.0
                                                                                     1
## 612
                                             Jardin, Mr. Jose Neto
                                                                      male
                                                                              NA
## 614
                                                  Horgan, Mr. John
                                                                      male
                                                                              NA
                                                                                     0
## 615
                                  Brocklebank, Mr. William Alfred
                                                                      male 35.0
                                                                                     0
## 617
                                         Danbom, Mr. Ernst Gilbert
                                                                      male 34.0
                 Lobb, Mrs. William Arthur (Cordelia K Stanlick) female 26.0
## 618
                                                                                     1
## 620
                                               Gavey, Mr. Lawrence
                                                                      male 26.0
                                                                                     0
## 621
                                                                      male 27.0
                                               Yasbeck, Mr. Antoni
                                                                                     1
## 624
                                       Hansen, Mr. Henry Damsgaard
                                                                      male 21.0
                                                                                     0
## 625
                                       Bowen, Mr. David John "Dai"
                                                                      male 21.0
                                                                                     0
## 626
                                             Sutton, Mr. Frederick
                                                                      male 61.0
```

```
## 627
                                   Kirkland, Rev. Charles Leonard
                                                                      male 57.0
## 629
                                        Bostandyeff, Mr. Guentcho
                                                                      male 26.0
                                                                                     0
## 630
                                          O'Connell, Mr. Patrick D
                                                                      male
                                                                             NΑ
## 632
                                      Lundahl, Mr. Johan Svensson
                                                                      male 51.0
                                                                                     0
## 634
                                    Parr, Mr. William Henry Marsh
                                                                      male
                                                                             NΑ
## 635
                                                Skoog, Miss. Mabel female 9.0
                                                                                     3
## 637
                                       Leinonen, Mr. Antti Gustaf
                                                                      male 32.0
                                               Collyer, Mr. Harvey
## 638
                                                                      male 31.0
                                                                                     1
## 639
                           Panula, Mrs. Juha (Maria Emilia Ojala) female 41.0
                                                                                     0
## 640
                                       Thorneycroft, Mr. Percival
                                                                      male
                                                                             NA
                                                                                     1
## 641
                                            Jensen, Mr. Hans Peder
                                                                      male 20.0
## 643
                                    Skoog, Miss. Margit Elizabeth female 2.0
                                                                                     3
## 647
                                                 Cor, Mr. Liudevit
                                                                      male 19.0
                                                                                     0
## 649
                                                Willey, Mr. Edward
                                                                      male
                                                 Mitkoff, Mr. Mito
## 651
                                                                      male
                                                                             NΑ
                                                                                     0
## 653
                                   Kalvik, Mr. Johannes Halvorsen
                                                                      male 21.0
## 655
                                     Hegarty, Miss. Hanora "Nora" female 18.0
                                                                                     0
## 656
                                        Hickman, Mr. Leonard Mark
                                                                      male 24.0
## 657
                                             Radeff, Mr. Alexander
                                                                      male
                                                                             NA
                                                                                     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
## 662
                                                 Badt, Mr. Mohamed
                                                                      male 40.0
                                                                                     0
## 663
                                       Colley, Mr. Edward Pomeroy
                                                                      male 47.0
## 664
                                                  Coleff, Mr. Peju
                                                                      male 36.0
                                                                                     0
## 666
                                                Hickman, Mr. Lewis
                                                                      male 32.0
                                                                                     2
## 667
                                      Butler, Mr. Reginald Fenton
                                                                      male 25.0
                                                                                     0
## 668
                                       Rommetvedt, Mr. Knud Paust
                                                                      male
                                                                             NA
                                                                                     0
## 669
                                                                      male 43.0
                                                   Cook, Mr. Jacob
## 672
                                            Davidson, Mr. Thornton
                                                                      male 31.0
## 673
                                      Mitchell, Mr. Henry Michael
                                                                      male 70.0
                                                                                     0
## 675
                                        Watson, Mr. Ennis Hastings
                                                                      male
                                                                             NΑ
                                                                                     0
## 676
                                   Edvardsson, Mr. Gustaf Hjalmar
                                                                      male 18.0
## 677
                                    Sawyer, Mr. Frederick Charles
                                                                      male 24.5
                                                                                     0
## 679
                          Goodwin, Mrs. Frederick (Augusta Tyler) female 43.0
## 681
                                               Peters, Miss. Katie female
                                                                             NA
                                                                                     0
## 683
                                      Olsvigen, Mr. Thor Anderson
                                                                      male 20.0
## 684
                                      Goodwin, Mr. Charles Edward
                                                                      male 14.0
## 685
                                Brown, Mr. Thomas William Solomon
                                                                      male 60.0
## 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
                                                                                     0
## 694
                                                  Saad, Mr. Khalil
                                                                      male 25.0
                                                                                     0
## 695
                                                   Weir, Col. John
                                                                      male 60.0
## 696
                                       Chapman, Mr. Charles Henry
                                                                      male 52.0
                                                                                     0
## 697
                                                  Kelly, Mr. James
                                                                      male 44.0
                                                                                     0
## 699
                                          Thayer, Mr. John Borland
                                                                      male 49.0
## 700
                         Humblen, Mr. Adolf Mathias Nicolai Olsen
                                                                      male 42.0
                                                                                     0
## 703
                                             Barbara, Miss. Saiide female 18.0
                                                                                     0
## 704
                                                                      male 25.0
                                             Gallagher, Mr. Martin
                                                                                     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
```

```
## 714
                                        Larsson, Mr. August Viktor
                                                                      male 29.0
## 715
                                                                      male 52.0
                                             Greenberg, Mr. Samuel
                                                                                     0
## 716
                       Soholt, Mr. Peter Andreas Lauritz Andersen
                                                                      male 19.0
## 719
                                               McEvoy, Mr. Michael
                                                                      male
                                                                                     0
                                                                             NA
## 720
                                      Johnson, Mr. Malkolm Joackim
                                                                      male 33.0
## 722
                                         Jensen, Mr. Svend Lauritz
                                                                      male 17.0
## 723
                                      Gillespie, Mr. William Henry
                                                                      male 34.0
## 724
                                           Hodges, Mr. Henry Price
                                                                      male 50.0
                                                                                     0
## 726
                                               Oreskovic, Mr. Luka
                                                                      male 20.0
                                                                                     Λ
## 729
                                  Bryhl, Mr. Kurt Arnold Gottfrid
                                                                      male 25.0
                                                                                     1
## 730
                                     Ilmakangas, Miss. Pieta Sofia female 25.0
                                                                                     1
## 732
                                          Hassan, Mr. Houssein G N
                                                                      male 11.0
                                                                                     0
## 733
                                              Knight, Mr. Robert J
                                                                      male
                                                                                     0
                                                                             NA
## 734
                                        Berriman, Mr. William John
                                                                      male 23.0
## 735
                                      Troupiansky, Mr. Moses Aaron
                                                                      male 23.0
                                                                                     0
## 736
                                              Williams, Mr. Leslie
                                                                      male 28.5
## 737
                          Ford, Mrs. Edward (Margaret Ann Watson) female 48.0
## 739
                                                Ivanoff, Mr. Kanio
                                                                      male
## 740
                                                Nankoff, Mr. Minko
                                                                      male
                                                                             NA
                                                                                     0
## 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
                                                                                     1
## 750
                                           Connaghton, Mr. Michael
                                                                      male 31.0
                                                                                     0
## 753
                                 Vande Velde, Mr. Johannes Joseph
                                                                      male 33.0
                                                                                     0
## 754
                                                Jonkoff, Mr. Lalio
                                                                      male 23.0
                                                                                     0
## 757
                                      Carlsson, Mr. August Sigfrid
                                                                      male 28.0
                                                                                     0
## 758
                                                                                     0
                                          Bailey, Mr. Percy Andrew
                                                                      male 18.0
## 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
                                            Eklund, Mr. Hans Linus
                                                                      male 16.0
## 767
                                         Brewe, Dr. Arthur Jackson
                                                                      male
                                                                             NA
                                                                                     0
## 768
                                                Mangan, Miss. Mary female 30.5
                                                                                     0
## 769
                                               Moran, Mr. Daniel J
                                                                      male
                                                                             NA
## 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
                                                                              NA
## 776
                          Myhrman, Mr. Pehr Fabian Oliver Malkolm
                                                                      male 18.0
                                                                                     0
## 777
                                                  Tobin, Mr. Roger
                                                                      male
                                                                              NA
                                                                                     0
## 779
                                           Kilgannon, Mr. Thomas J
                                                                      male
                                                                                     0
                                                                              NA
## 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
                                                                      male 25.0
                               Harmer, Mr. Abraham (David Lishin)
                                                                                     0
## 788
                                         Rice, Master. George Hugh
                                                                      male 8.0
                                                                                     4
## 790
                                          Guggenheim, Mr. Benjamin
                                                                      male 46.0
                                                                                     0
## 791
                                          Keane, Mr. Andrew "Andy"
                                                                      male
                                                                             NA
                                                                                     0
## 792
                                               Gaskell, Mr. Alfred
                                                                      male 16.0
                                                                                     0
## 793
                                           Sage, Miss. Stella Anna female
                                                                                     8
                                                                             NΑ
## 794
                                          Hoyt, Mr. William Fisher
                                                                      male
```

```
## 795
                                             Dantcheff, Mr. Ristiu
                                                                      male 25.0
## 796
                                                Otter, Mr. Richard
                                                                      male 39.0
                                                                                     0
                                      Ibrahim Shawah, Mr. Yousseff
## 799
                                                                      male 30.0
## 800
            Van Impe, Mrs. Jean Baptiste (Rosalie Paula Govaert) female 30.0
                                                                                     1
## 801
                                              Ponesell, Mr. Martin
                                                                      male 34.0
## 806
                                         Johansson, Mr. Karl Johan
                                                                      male 31.0
                                                                                     0
## 807
                                            Andrews, Mr. Thomas Jr
                                                                      male 39.0
## 808
                                  Pettersson, Miss. Ellen Natalia female 18.0
                                                                                     0
## 809
                                                 Meyer, Mr. August
                                                                      male 39.0
                                                                                     Λ
## 811
                                            Alexander, Mr. William
                                                                      male 26.0
                                                                                     0
## 812
                                                 Lester, Mr. James
                                                                      male 39.0
## 813
                                         Slemen, Mr. Richard James
                                                                      male 35.0
                                                                                     0
## 814
                               Andersson, Miss. Ebba Iris Alfrida female 6.0
                                                                                     4
## 815
                                        Tomlin, Mr. Ernest Portage
                                                                      male 30.5
## 816
                                                  Fry, Mr. Richard
                                                                      male
                                                                             NΑ
                                                                                     0
## 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
                                                                      male 10.0
## 820
                                     Skoog, Master. Karl Thorsten
                                                                                     3
## 823
                                  Reuchlin, Jonkheer. John George
                                                                      male 38.0
## 825
                                     Panula, Master. Urho Abraham
                                                                      male 2.0
                                                                                     4
## 826
                                                   Flynn, Mr. John
                                                                      male
                                                                             NΑ
## 827
                                                      Lam, Mr. Len
                                                                      male
                                                                             NA
                                                                                     0
                                                    Saad, Mr. Amin
## 833
                                                                      male
                                                                             NA
                                                                                     0
## 834
                                            Augustsson, Mr. Albert
                                                                      male 23.0
                                                                                     0
## 835
                                            Allum, Mr. Owen George
                                                                      male 18.0
                                                                                     0
## 837
                                                  Pasic, Mr. Jakob
                                                                      male 21.0
                                                                                     0
## 838
                                               Sirota, Mr. Maurice
                                                                      male
                                                                             NA
                                                                                     0
## 841
                                      Alhomaki, Mr. Ilmari Rudolf
                                                                      male 20.0
                                                                                     0
## 842
                                          Mudd, Mr. Thomas Charles
                                                                      male 16.0
## 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
                                                                                     8
## 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 9.0
## 855
                   Carter, Mrs. Ernest Courtenay (Lilian Hughes) female 44.0
## 860
                                                  Razi, Mr. Raihed
                                                                      male
                                                                             NA
## 861
                                           Hansen, Mr. Claus Peter
                                                                      male 41.0
                                                                                     2
## 862
                                      Giles, Mr. Frederick Edward
                                                                      male 21.0
                                                                                     1
## 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
                                                                                     0
## 874
                                      Vander Cruyssen, Mr. Victor
                                                                      male 47.0
                                                                                     0
## 877
                                    Gustafsson, Mr. Alfred Ossian
                                                                      male 20.0
                                                                                     0
## 878
                                              Petroff, Mr. Nedelio
                                                                      male 19.0
                                                                                     0
## 879
                                                Laleff, Mr. Kristo
                                                                      male
                                                                                     0
                                                                             NA
## 882
                                                Markun, Mr. Johann
                                                                      male 33.0
```

```
## 883
                                       Dahlberg, Miss. Gerda Ulrika female 22.0
                                                                         male 28.0
## 884
                                      Banfield, Mr. Frederick James
                                                                                         0
## 885
                                              Sutehall, Mr. Henry Jr
                                                                         male 25.0
## 886
                              Rice, Mrs. William (Margaret Norton) female 39.0
                                                                                         0
## 887
                                               Montvila, Rev. Juozas
                                                                         male 27.0
## 889
                          Johnston, Miss. Catherine Helen "Carrie" female
                                                                                 NA
## 891
                                                 Dooley, Mr. Patrick
                                                                         male 32.0
                                                   Cabin Embarked
##
       Parch
                           Ticket
                                       Fare
## 1
            0
                        A/5 21171
                                     7.2500
                                                                  S
## 5
            0
                                     8.0500
                                                                  S
                           373450
## 6
            0
                           330877
                                     8.4583
                                                                  Q
## 7
                                                                  S
            0
                            17463
                                                     E46
                                    51.8625
## 8
            1
                           349909
                                    21.0750
                                                                  S
                                                                  S
## 13
            0
                        A/5. 2151
                                     8.0500
## 14
            5
                           347082
                                    31.2750
                                                                  S
## 15
            0
                           350406
                                     7.8542
                                                                  S
## 17
            1
                           382652
                                                                  Q
                                    29.1250
## 19
                                                                  S
            0
                           345763
                                    18.0000
## 21
            0
                           239865
                                    26.0000
                                                                  S
## 25
                                                                  S
            1
                           349909
                                    21.0750
## 27
            0
                             2631
                                     7.2250
                                                                  C
## 28
            2
                            19950 263.0000 C23 C25 C27
                                                                  S
## 30
            0
                           349216
                                     7.8958
                                                                  S
## 31
            0
                         PC 17601
                                    27.7208
                                                                  C
                                                                  S
## 34
            0
                       C.A. 24579
                                    10.5000
## 35
            0
                         PC 17604
                                    82.1708
                                                                  C
## 36
            0
                           113789
                                    52.0000
                                                                  S
## 38
            0
                       A./5. 2152
                                     8.0500
                                                                  S
## 39
                                                                  S
            0
                           345764
                                    18.0000
## 41
            0
                             7546
                                     9.4750
                                                                  S
## 42
            0
                            11668
                                    21.0000
                                                                  S
## 43
            0
                           349253
                                     7.8958
                                                                  C
## 46
                                                                  S
            0
                 S.C./A.4. 23567
                                     8.0500
## 47
                           370371
                                    15.5000
                                                                  Q
            0
## 49
                                                                  C
            0
                             2662
                                    21.6792
## 50
            0
                           349237
                                    17.8000
                                                                  S
## 51
            1
                          3101295
                                    39.6875
                                                                  S
## 52
            0
                       A/4. 39886
                                     7.8000
                                                                  S
## 55
            1
                           113509
                                    61.9792
                                                      B30
                                                                  C
## 58
                                                                  C
            0
                             2697
                                     7.2292
## 60
                          CA 2144
                                    46.9000
                                                                  S
                                                                  C
## 61
            0
                             2669
                                     7.2292
## 63
            0
                            36973
                                    83.4750
                                                      C83
                                                                  S
## 64
            2
                                                                  S
                           347088
                                    27.9000
## 65
            0
                         PC 17605
                                                                  C
                                    27.7208
## 68
                                                                  S
            0
                        S.P. 3464
                                     8.1583
## 70
                                                                  S
            0
                           315151
                                     8.6625
## 71
            0
                                                                  S
                       C.A. 33111
                                    10.5000
## 72
            2
                          CA 2144
                                    46.9000
                                                                  S
## 73
                                                                  S
            0
                    S.O.C. 14879
                                    73.5000
                                                                  С
## 74
            0
                             2680
                                    14.4542
## 76
            0
                                                                  S
                           348123
                                     7.6500
                                                   F G73
## 77
            0
                           349208
                                     7.8958
                                                                  S
## 78
                                                                  S
            0
                           374746
                                     8.0500
```

##	81	0	345767	9.0000		S
##		0	113059	47.1000		S
##	87	3	W./C. 6608	34.3750		S
##	88	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	DOG	C
##	125 127	1	35281	77.2875	D26	S
## ##	130	0	370372 347061	7.7500 6.9750		Q S
	131	0	349241	7.8958		C
	132		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		C
##	138	0	113803	53.1000	C123	S
##	139	0	7534	9.2167		S
##	140	0	PC 17593	79.2000	B86	C
##	141	2	2678	15.2458		С
##	144	0	365222	6.7500		Q
##	145	0	231945	11.5000		S
##	146	1	C.A. 33112	36.7500		S
##	148	2	W./C. 6608	34.3750		S
##	149	2	230080	26.0000	F2	S
##	150	0	244310	13.0000		S
##	151	0	S.O.P. 1166	12.5250		S
##	153	0	A.5. 11206	8.0500		S
##	154	2	A/5. 851	14.5000		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
	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		C
##	206	1	347054	10.4625	G6	S
##	207	0	3101278	15.8500		S
##	211	0	SOTON/O.Q. 3101311	7.0500		S
##	213	0	A/5 21174	7.2500		S
##	214	0	250646	13.0000		S
##	215	0	367229	7.7500		Q
##	218	0	243847	27.0000		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	070	C
	246	0	19928	90.0000	C78	Q
	247	0	347071	7.7750		S S
	250 251	0	244252 362316	26.0000		s S
	251	0	347054	7.2500	G6	s S
	252	1		10.4625 26.5500	C87	s S
	253 254	0	113514 A/5. 3336	16.1000	Col	s S
	255	2	370129	20.2125		s S
	261	0	384461	7.7500		
	263	1	110413	79.6500	E67	Q S
	264	0	112059	0.0000	B94	S
	265	0	382649	7.7500	D34	Q
	266	0	C.A. 17248	10.5000		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		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		C
##	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	153.4625	C91	S
##	334	0	345764	18.0000		S
##	336	0	349225	7.8958		S
##	337	0	113776	66.6000	C2	S

	- 4 -	_			_	~
	340	0	113784	35.5000	T	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		C
##	364	0	SOTON/O.Q. 3101310	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	135.6333		C
##	375	1	349909	21.0750		S
##	378	2	113503	211.5000	C82	C
##	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		Ŝ
##	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	25.4667		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	13.0000		S
	420	2	345773	24.1500		S
	421	0	349254	7.8958		C
	422	0	A/5. 13032	7.7333		Q
	423	0	315082	7.8750		S
	424	1	347080	14.4000		S
	425	1	370129	20.2125		S
π#	120	1	370129	20.2120		5

##	426	0	A/4. 34244	7.2500		S
##	429	0	364851	7.7500		Q
##	434	0	STON/O 2. 3101274	7.1250		S
##	435	0	13507	55.9000	E44	S
##	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		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		C30	S
	494	0	PC 17609			C
	495	0	A/4 45380			S
	496	0	2627	14.4583		C
	498	0	C.A. 6212	15.1000		S
	499	2		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	205	S
	506	0		108.9000	C65	C
	509	0	C 4001	22.5250		S
	512	0	SOTON/OQ 3101316	8.0500		S
	515	0	349209	7.4958	- A -	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		С
##	525	0	2700	7.2292		С
##	526	0	367232	7.7500		Q
##	528	0	PC 17483	221.7792	C95	S
##	529	0	3101296	7.9250		S
##	530	1	29104	11.5000		S
##	532	0	2641	7.2292		С
##	533	1	2690	7.2292		С
##	535	0	315084	8.6625		S
##	537	0	113050	26.5500	B38	S
##	539	0	364498	14.5000		S
##	542	2	347082	31.2750		S
##	543	2	347082	31.2750		S
##	545	0	PC 17761	106.4250	C86	C
##	546	0	693	26.0000		S
##	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	227.5250		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		C
##	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		C
##	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

	0.1.0	^	GOTTON /O O 0101005	7 0500		~
	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
	618	0	A/5. 3336	16.1000		S
##	620	0	31028	10.5000		S
##	621	0	2659	14.4542		С
##	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		113.2750	D48	С
##	662	0	2623	7.2250		С
##	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		C
##	687	1	3101295	39.6875		S
	688	0	349228	10.1708		S
##	689	0	350036	7.7958		S
	694	0	2672	7.7350		С
<i>11</i> π	551	J	2012	1.2200		J

##	695	0	113800	26.5500		S
##	696	0	248731	13.5000		S
##	697	0	363592	8.0500		S
##	699	1	17421		C68	C
##	700	0	348121	7.6500	F G63	S
##	703	1	2691	14.4542	1 000	C
##	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	0124	S
##	714		250647	13.0000		S
##	716	0			E C72	S
		0	348124	7.6500	F G73	
##	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	0	347074	7.7750		S
##	767	0	112379	39.6000		C
##	768	0	364850	7.7500		Q
##	769	0	371110	24.1500		Q
##	770	0	8471	8.3625		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		C
##	776	0	347078	7.7500		S
##	777	0	383121	7.7500	F38	Q
##	779	0	36865	7.7375		Q

##	783	0	113501	30.0000	D6	S
	784	2	W./C. 6607	23.4500	50	S
	785		SOTON/O.Q. 3101312	7.0500		S
	786	0	374887	7.2500		S
##	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		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
	826 827	0	368323	6.9500		Q S
	833	0	1601	56.4958		C
	834	0	2671 347468	7.2292 7.8542		S
##	835	0	2223	8.3000		S
	837	0	315097	8.6625		S
	838	0	392092	8.0500		S
	841	0	SOTON/02 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	347060	7.7750		S
	853	1	2678	15.2458		С
	855	0	244252	26.0000		S
	860	0	2629	7.2292		C
##	861	0	350026	14.1083		S
##	862	0	28134	11.5000		S
##	864	2	CA. 2343	69.5500		S

```
## 865
                                                                 S
                           233866
                                   13.0000
## 868
           0
                        PC 17590
                                    50.4958
                                                     A24
                                                                 S
                                     9.5000
                                                                 S
## 869
                           345777
## 871
                           349248
                                     7.8958
                                                                 S
           0
## 873
           0
                              695
                                     5.0000 B51 B53 B55
                                                                 S
## 874
           0
                           345765
                                     9.0000
                                                                 S
## 877
                             7534
                                     9.8458
                                                                 S
           0
## 878
                           349212
                                     7.8958
                                                                 S
           0
## 879
           0
                           349217
                                     7.8958
                                                                 S
## 882
           0
                           349257
                                                                 S
                                     7.8958
## 883
           0
                             7552
                                    10.5167
                                                                 S
                                                                 S
## 884
           0
                C.A./SOTON 34068
                                    10.5000
## 885
                 SOTON/OQ 392076
           0
                                     7.0500
                                                                 S
## 886
           5
                           382652
                                                                 Q
                                    29.1250
## 887
           0
                           211536
                                    13.0000
                                                                 S
## 889
                       W./C. 6607
                                    23.4500
                                                                 S
## 891
                           370376
                                                                  Q
                                     7.7500
head(survived)
      PassengerId Survived Pclass
                 2
                           1
                 3
                           1
                                   3
                 4
                           1
                                   1
                 9
                           1
                                   3
```

## 2 ## 3 ## 4 ## 9 ## 10 10 1 2 ## 11 1 3 11 ##

Sex Age SibSp Parch Name Cumings, Mrs. John Bradley (Florence Briggs Thayer) female ## 3 Heikkinen, Miss. Laina female 0 ## 4 Futrelle, Mrs. Jacques Heath (Lily May Peel) female ## 9 Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg) female 2 27 0 ## 10 Nasser, Mrs. Nicholas (Adele Achem) female ## 11 Sandstrom, Miss. Marguerite Rut female 1 ## Ticket Fare Cabin Embarked ## 2 PC 17599 71.2833 C85

STON/02. 3101282 7.9250 ## 4 113803 53.1000 C123 S ## 9 347742 11.1333 S С ## 10 237736 30.0708 ## 11 PP 9549 16.7000 S

## head (dead)

## PassengerId Survived Pclass Name Sex Age SibSp ## 1 0 3 Braund, Mr. Owen Harris male 1 22 ## 5 5 0 3 Allen, Mr. William Henry male 0 ## 6 6 0 3 Moran, Mr. James male 0 7 McCarthy, Mr. Timothy J male ## 7 0 0 1 54 ## 8 8 0 3 Palsson, Master. Gosta Leonard male 3 ## 13 0 3 Saundercock, Mr. William Henry male 13 Ticket Fare Cabin Embarked Parch 0 A/5 21171 7.2500 ## 1 373450 8.0500 S ## 5 0 ## 6 0 330877 8.4583 Q ## 7 0 17463 51.8625 E46 S

```
## 8 1 349909 21.0750 S
## 13 0 A/5. 2151 8.0500 S
```

- 8. The data sets are about the breast cancer Wisconsin. The samples arrive periodically as Dr. Wolberg reports his clinical cases. The database therefore reflects this chronologi https://drive.google.com/file/d/16MFLoehCgx2MJuNSAuB2CsBy6eDIIr-u/view?usp=drive\_link)
- d. Compute the descriptive statistics using different packages. Find the values of: d.1 Standard error of the mean for clump thickness. d.2 Coefficient of variability for Marginal Adhesion. d.3 Number of null values of Bare Nuclei. d.4 Mean and standard deviation for Bland Chromatin d.5 Confidence interval of the mean for Uniformity of Cell Shape
- e. Describe what is the dataset all about.

This dataset is about the classification of breast cancer based on various features or cell characteristics. It has features related to cell characteristics.

The dataset consists of 699 observations and 11 variables.

d. Compute the descriptive statistics using different packages. Find the values of: d.1 Standard error of the mean for clump thickness. d.2 Coefficient of variability for Marginal Adhesion. d.3 Number of null values of Bare Nuclei. d.4 Mean and standard deviation for Bland Chromatin d.5 Confidence interval of the mean for Uniformity of Cell Shape

```
library(readr)
library(pastecs)
library(Hmisc)

breastCancer <- read.csv("breastcancer_wisconsin.csv")
breastCancer</pre>
```

##		id	clump_thickness	size_uniformity	shape_uniformity	marginal_adhesion
##	1	1000025	5	1	1	1
##	2	1002945	5	4	4	5
##	3	1015425	3	1	1	1
##	4	1016277	6	8	8	1
##	5	1017023	4	1	1	3
##	6	1017122	8	10	10	8
##	7	1018099	1	1	1	1
##	8	1018561	2	1	2	1
##	9	1033078	2	1	1	1
##	10	1033078	4	2	1	1
##	11	1035283	1	1	1	1
##	12	1036172	2	1	1	1
##	13	1041801	5	3	3	3
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##	16	1047630	7	4	6	4
##	17	1048672	4	1	1	1
##	18	1049815	4	1	1	1
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##	20	1050718	6	1	1	1
##	21	1054590	7	3	2	10
##	22	1054593	10	5	5	3
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##	27	1066373	3	2	1	1
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	33	1072179	10	7	7	3
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	53	1110102	10	3		2
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##		1124651	1	3	3	2
					5 5	
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	131	1177512	5	1	3	1
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	164	1197440	1	1	1	2
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	212	1219859	8	10	8	8
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	216	1222936	8	7	8	7
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	225	1227210	10	5	5	6
	226	1227244	1	1	1	1
	227	1227481	10	5	7	4
	228	1228152	8	9	9	5
	229	1228311	1	1	1	1
	230	1230175	10	10	10	3
	231	1230688	7	4	7	4
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	236	1241232	3	1	4	1
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	238	1241679	9	8	8	5
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	240	1242304	10	4	3	2
	241	1270479	5	1	3	3
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	255	1116116	9	10	10	1
	256	1168736	5	6	6	2
		1182404				
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	259	1198641	3	1	1	1
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	261	255644	10	5	8	10
	262	263538	5	10	10	6
	263	274137	8	8	9	4
	264	303213	10	4	4	10
	265	314428	7	9	4	10
	266	1182404	5	1	4	1
	267	1198641	10	10	6	3
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	271	390840	8	4	7	1
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	306	659642	10	8	4	4
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	346	826923	1	1	1	1
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##	550	002007	4	2	3	5

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	359	866325	8	10	5	3
	360	873549	10	3	5	4
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##	409	1236837	2	3	2	2
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	418	1239967	1	1	1	1
	419	1240337	5	2	2	2
	420	1253505	2	3	1	1
	421	1255384	3	2	2	3
	422	1257200				
	423	1257200	10	10 3	10	
			4			1
	424	1257815	5	1	3	1
	425	1257938	3	1	1	1
	426	1258549	9	10	10	10
	427	1258556	5	3	6	1
	428	1266154	8	7	8	2
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	430	1276091	2	1	1	1
	431	1276091	1	3	1	1
	432	1276091	5	1	1	3
	433	1277629	5	1	1	1
	434	1293439	3	2	2	3
	435	1293439	6	9	7	5
	436	1294562	10	8	10	1
##	437	1295186	10	10	10	1
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	439	558538	4	1	3	3
##	440	566509	5	1	1	1
	441	608157	10	4	3	10
##	442	677910	5	2	2	4
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	456	1246562	10	2	2	1
	457	1257470	10	6	5	8
	458	1259008	8	8	9	6

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## 40	61	1268313	5	1	1	3
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## 40	63	1276091	6	1	1	3
## 40	64	1280258	4	1	1	1
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breastCancerStats <- stat.desc(breastCancer)
breastCancerStats</pre>

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##	, ,		_	-		-	sna	pe_uniformity
	nbr.val	6.990000e+02	(	699.0000000	68	99.0000000		699.0000000
	nbr.null	0.000000e+00		0.0000000		0.0000000		0.0000000
	nbr.na	0.000000e+00		0.0000000		0.0000000		0.0000000
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##	max	1.345435e+07		10.0000000	1	10.0000000		10.0000000
##	range	1.339272e+07		9.0000000		9.0000000		9.0000000
##	sum	7.491212e+08	30	0000000.880	219	91.0000000		2242.0000000
##	median	1.171710e+06		4.0000000		1.0000000		1.0000000
##	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		0.2091009		0.2266057		0.2206984
##	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_adhe	sion	epithelial.	_size h	pare_nucled	oli	bland_chromatin
##	nbr.val	699.000	00000	6.990000	0e+02		NA	6.990000e+02
##	nbr.null	0.000	00000	0.00000	0e+00		NA	0.000000e+00
##	nbr.na	0.000	00000	0.00000	0e+00		NA	0.000000e+00
##	min	1.000	00000	1.000000	0e+00		NA	1.000000e+00
##	max	10.000	00000	1.000000	0e+01		NA	1.000000e+01
##	range	9.000	00000	9.000000	0e+00		NA	9.000000e+00
	sum	1962.000	00000	2.248000	0e+03		NA	2.403000e+03
##	median	1.000	0000	2.00000	0e+00		NA	3.000000e+00
##	mean	2.806	8670	3.21602	3e+00		NA	3.437768e+00
##	SE.mean	0.108	30004	8.37525	1e-02		NA	9.222741e-02
##		0.212	20445	1.644370	0e-01		NA	1.810764e-01
##	var	8.153	31906	4.90312	4e+00		NA	5.945620e+00

```
## std.dev
                         2.8553792
                                      2.214300e+00
                                                               NA
                                                                      2.438364e+00
## coef.var
                         1.0172834
                                      6.885212e-01
                                                               NΑ
                                                                      7.092870e-01
##
                normal nucleoli
                                      mitoses
                    699.0000000 6.990000e+02 6.990000e+02
## nbr.val
## nbr.null
                      0.0000000 0.000000e+00 0.000000e+00
                      0.0000000 0.000000e+00 0.000000e+00
## nbr.na
                      1.0000000 1.000000e+00 2.000000e+00
## min
                     10.0000000 1.000000e+01 4.000000e+00
## max
## range
                      9.0000000 9.000000e+00 2.000000e+00
                  2004.0000000 1.111000e+03 1.880000e+03
## sum
## median
                      1.0000000 1.000000e+00 2.000000e+00
                      2.8669528 1.589413e+00 2.689557e+00
## mean
## 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 <- breastCancerStats["SE.mean", "clump_thickness"]</pre>
clump_thickness_SEmean
## [1] 0.1065011
marginal_adhesion_coefVar <- breastCancerStats["coef.var", "marginal_adhesion"]</pre>
marginal_adhesion_coefVar
## [1] 1.017283
bare_nucleoli_null <- breastCancerStats["nbr.null", "bare_nucleoli"]</pre>
bare_nucleoli_null
## [1] NA
bland_chromatin_mean <- breastCancerStats["mean", "bland_chromatin"]</pre>
bland_chromatin_mean
## [1] 3.437768
bland_chromatin_std_dev <- breastCancerStats["std.dev", "bland_chromatin"]</pre>
bland_chromatin_std_dev
## [1] 2.438364
shape_uniformity_CImean <- breastCancerStats["CI.mean", "shape_uniformity"]</pre>
shape uniformity CImean
## [1] 0.2206984
  d. How many attributes?
num_attributes <- ncol(breastCancer) num_attributes
  e. Find the percentage of respondents who are malignant. Interpret the results.
# Assuming class 4 is malignant
percentage_malignant <- (sum(breastCancer$class == 4) / nrow(breastCancer)) * 100</pre>
paste0("Percentage of Respondents who are Malignant: ", percentage_malignant,"%")
```

## [1] "Percentage of Respondents who are Malignant: 34.4778254649499%"

9. Export the data abalone to the Microsoft excel file. Copy the codes.

```
install.packages("AppliedPredictiveModeling") library("AppliedPredictiveModeling") view(abalone) head(abalone) summary(abalone)
```

```
#install.packages("AppliedPredictiveModeling")
library("AppliedPredictiveModeling")
library("xlsx")
data(abalone)
#View(abalone)
head(abalone)
##
     Type LongestShell Diameter Height WholeWeight ShuckedWeight VisceraWeight
## 1
                            0.365
                                   0.095
                                               0.5140
                                                              0.2245
                  0.455
                                                                             0.1010
## 2
        Μ
                  0.350
                            0.265
                                   0.090
                                               0.2255
                                                              0.0995
                                                                             0.0485
## 3
        F
                  0.530
                            0.420
                                   0.135
                                               0.6770
                                                              0.2565
                                                                             0.1415
## 4
        М
                            0.365
                  0.440
                                   0.125
                                               0.5160
                                                              0.2155
                                                                             0.1140
## 5
        Ι
                  0.330
                            0.255
                                   0.080
                                               0.2050
                                                              0.0895
                                                                             0.0395
## 6
        Ι
                  0.425
                            0.300
                                   0.095
                                               0.3515
                                                              0.1410
                                                                             0.0775
##
     ShellWeight Rings
## 1
           0.150
                     15
## 2
           0.070
                      7
## 3
           0.210
                      9
## 4
           0.155
                     10
## 5
           0.055
                      7
## 6
           0.120
                      8
summary(abalone)
##
    Туре
              LongestShell
                                  Diameter
                                                     Height
                                                                    WholeWeight
                                                         :0.0000
##
    F:1307
             Min.
                     :0.075
                               Min.
                                      :0.0550
                                                 Min.
                                                                   Min.
                                                                           :0.0020
    I:1342
             1st Qu.:0.450
                               1st Qu.:0.3500
                                                 1st Qu.:0.1150
                                                                   1st Qu.:0.4415
             Median : 0.545
                               Median :0.4250
                                                 Median :0.1400
                                                                   Median :0.7995
##
    M:1528
##
             Mean
                     :0.524
                                      :0.4079
                                                         :0.1395
                                                                   Mean
                                                                           :0.8287
                               Mean
                                                 Mean
##
             3rd Qu.:0.615
                               3rd Qu.:0.4800
                                                 3rd Qu.:0.1650
                                                                   3rd Qu.:1.1530
##
             Max.
                     :0.815
                               Max.
                                      :0.6500
                                                 Max.
                                                         :1.1300
                                                                   Max.
                                                                           :2.8255
##
    ShuckedWeight
                      VisceraWeight
                                         ShellWeight
                                                               Rings
                              :0.0005
##
    Min.
            :0.0010
                      Min.
                                        Min.
                                                :0.0015
                                                           Min.
                                                                  : 1.000
##
    1st Qu.:0.1860
                      1st Qu.:0.0935
                                        1st Qu.:0.1300
                                                           1st Qu.: 8.000
    Median : 0.3360
                      Median :0.1710
                                        Median : 0.2340
                                                           Median: 9.000
##
    Mean
            :0.3594
                      Mean
                              :0.1806
                                        Mean
                                                :0.2388
                                                           Mean
                                                                  : 9.934
##
    3rd Qu.:0.5020
                      3rd Qu.:0.2530
                                        3rd Qu.:0.3290
                                                           3rd Qu.:11.000
                                                                  :29.000
    Max.
            :1.4880
                      Max.
                              :0.7600
                                        Max.
                                                :1.0050
                                                           Max.
#write.xlsx(abalone, "abalone.xlsx")
```