RWorhsheet_5

2023-12-22

1. Create a data frame for the table below. Show your solution.

```
StudScore <- data.frame(</pre>
  Student = c(1:10),
  PreTest = c(55,54,47,57,51,61,57,54,63,58),
  PostTest = c(61,60,56,63,56,63,59,56,62,61)
)
StudScore
##
      Student PreTest PostTest
## 1
            1
                   55
## 2
            2
                   54
                             60
## 3
            3
                   47
                             56
## 4
            4
                   57
                             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
library(pastecs)
library(Hmisc)
##
## Attaching package: 'Hmisc'
## The following objects are masked from 'package:base':
##
##
       format.pval, units
PastecsStats <- stat.desc(StudScore)</pre>
PastecsStats
##
                   Student
                                 PreTest
                                              PostTest
                10.0000000 10.00000000
                                          10.00000000
## nbr.val
## nbr.null
                 0.0000000
                              0.00000000
                                           0.00000000
## nbr.na
                 0.0000000
                              0.00000000
                                           0.00000000
## min
                 1.0000000 47.00000000
                                          56.00000000
## max
                10.0000000
                             63.00000000
                                          63.00000000
                 9.0000000 16.00000000
                                           7.0000000
## range
## sum
                55.0000000 557.00000000 597.00000000
                 5.5000000 56.00000000 60.50000000
## median
## mean
                 5.5000000 55.70000000 59.70000000
## SE.mean
                 0.9574271
                              1.46855938
                                           0.89504811
## CI.mean.0.95 2.1658506
                              3.32211213
                                           2.02473948
## var
                 9.1666667 21.56666667
                                           8.01111111
## std.dev
                 3.0276504
                              4.64399254
                                           2.83039063
```

```
0.5504819 0.08337509 0.04741023
## coef.var
HmiscStats <- Hmisc::describe(StudScore[,c("PreTest","PostTest")])</pre>
HmiscStats
## StudScore[, c("PreTest", "PostTest")]
##
                   10 Observations
  2 Variables
## ------
## PreTest
         n missing distinct
                                 Info
                                          Mean
                                                   Gmd
##
                                0.988
                                          55.7
                                                  5.444
        10
                  0
##
## 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
##
## For the frequency table, variable is rounded to the nearest 0
## PostTest
##
         n missing distinct
                                Info
                                          Mean
                                                   Gmd
##
        10
                  0
                          6
                                0.964
                                          59.7
                                                  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.
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
LevFertilizer \leftarrow c(10,10,10, 20,20,50,10,20,10,50,20,50,20,10)
orderedLevFertilizer <- factor(LevFertilizer, levels = unique(LevFertilizer))</pre>
summaryFertilizer <- summary(orderedLevFertilizer)</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", "n", "n", "i", "l"; n=none, l=light, i=intense.

```
## 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:

```
States <- c("tas", "sa", "qld", "nsw", "nsw", "nt", "wa", "qld", "vic", "nsw", "vic", "qld", "qld"

factoredState <- factor(States)

factoredState

## [1] tas sa qld nsw nsw nt wa wa qld vic nsw vic qld qld sa tas sa nt wa

## [20] vic qld nsw nsw wa sa act nsw vic vic act

## Levels: act nsw nt qld sa tas vic wa

summaryStates <- summary(factoredState)

summaryStates
```

```
## act nsw nt qld sa tas vic wa ## 2 6 2 5 4 2 5 4
```

The outcome is the same as the sample, which is a factor that corresponds to the distinct values foun

5a.. From #4 - continuation:

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

```
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)
```

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

• 2 that tapply() also works in this case when its second argument is not a factor, • e.g., 'tapply(incomes, state)', and this is true for quite a few other functions, since arguments are coerced to factors when necessary (using as.factor()).

```
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)</pre>
meanIncomes
##
         act
                                       qld
## 44.50000 57.33333 55.50000 53.60000 55.00000 60.50000 56.00000 52.25000
5b. Copy the results and interpret.
Results:
 act
           nsw
                      nt.
                               qld
                                          sa
                                                   tas
                                                             vic
                                                                         wa
44.50000\ 57.33333\ 55.50000\ 53.60000\ 55.00000\ 60.50000\ 56.00000\ 52.25000
The average income for each state is included in this output. Additionally, each name corresponds to a
stateFactor factor level.
6a. Calculate the standard errors of the state income means (refer again to number 3)
stdError \leftarrow function(x) sqrt(var(x)/length(x))
Note: After this assignment, the standard errors are calculated by: incster <- tapply(incomes, statef, stdError)
stdError <- function(x) sqrt(var(x)/length(x))</pre>
incster <- tapply(incomes, States, stdError)</pre>
standardError <- tapply(incomes, factoredState, stdError)</pre>
standardError
##
         act.
                                       qld
                                                                     vic
                                                           tas
## 1.500000 4.310195 4.500000 4.106093 2.738613 0.500000 5.244044 2.657536
6b. Interpret the result.
The standard errors connected to each state's projected mean income are contained in the vector Incster.
The sample mean's variability is reflected in the standard error, where higher standard errors denote higher
variability.
7.Use the titanic dataset.
library(titanic)
data("titanic train")
titanic_data <- titanic_train</pre>
str(titanic_data)
                      891 obs. of 12 variables:
## 'data.frame':
                          1 2 3 4 5 6 7 8 9 10 ...
    $ PassengerId: int
    $ Survived
                   : int
                          0 1 1 1 0 0 0 0 1 1 ...
##
    $ Pclass
                   : int
                          3 1 3 1 3 3 1 3 3 2 ...
                           "Braund, Mr. Owen Harris" "Cumings, Mrs. John Bradley (Florence Briggs Thayer)"
##
    $ Name
                   : chr
                           "male" "female" "female" ...
##
    $ Sex
                   : chr
##
    $ Age
                          22 38 26 35 35 NA 54 2 27 14 ...
                   : num
##
    $ SibSp
                   : int
                          1 1 0 1 0 0 0 3 0 1 ...
##
    $ 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" ...

"S" "C" "S" "S" ...

##

\$ Cabin

\$ Embarked

: chr

: chr

Survived <- subset(titanic_data, Survived == 1) Survived</pre>

##	PassengerId	Survived	Pclass
## 2	2	1	1
## 3	3	1	3
## 4	4	1	1
## 9	9	1	3
## 10	10	1	2
## 11	11	1	3
## 12	12	1	1
## 16	16	1	2
## 18	18	1	2
## 20	20	1	3
## 22	22	1	2
## 23	23	1	3
## 24	24	1	1
## 26	26	1	3
## 29	29	1	3
## 32	32	1	1
## 33	33	1	3
## 37	37	1	3
## 40	40	1	3
## 44	44	1	2
## 45	45	1	3
## 48	48	1	3
## 53	53	1	1
## 54	54	1	2
## 56	56	1	1
## 57	57	1	2
## 59	59	1	2
## 62	62	1	1
## 66	66	1	3
## 67	67	1	2
## 69	69	1	3
## 75	75	1	3
## 79	79	1	2
## 80	80	1	3
## 82	82	1	3 3
## 83	83	1	
## 85	85	1	2
## 86	86	1 1	3 1
## 89	89	1	1
## 98 ## 99	98 99	1	2
## 99 ## 107		1	3
		1	
## 108 ## 110		1	3 3
## 110		1	2
## 124		1	3
## 128		1	3
## 120		1	3
## 129		1	2
## 134		1	1
## 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			3
		262	1	
##	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
			1	
##	300	300		1
##	301	301	1	3
##	302	302	1	3
##	304	304	1	2
##	306	306	1	1
			1	1
##	307	307		
##	308	308	1	1
##	310	310	1	1
##	311	311	1	1
##	312	312	1	1
##	316	316	1	3
##	317	317	1	2
##	319	319	1	1
##	320	320	1	1
##	323	323	1	2
##	324	324	1	2
##	326	326	1	1
##	328	328	1	2
##	329	329	1	3
##	330	330	1	1
##	331	331	1	3
##	335	335	1	1
##	338	338	1	1
##	339	339	1	3
##	341	341	1	2
##	342	342	1	1
##	346	346	1	2
##	347	347	1	2
##	348	348	1	3
##	349	349	1	3
##	357	357	1	1
##	359	359	1	3
##	360	360	1	3
##	367	367	1	1
				_
##	368	368	1	3
##	369	369	1	3
##	370	370	1	1
##	371	371	1	1
##	376	376	1	1
##	377	377	1	3
##	381	381	1	1
##	382	382	1	3
##	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
##	401	TOI	1	J

	400	400		_
##	408	408	1	2
##	413	413	1	1
##	415	415	1	3
##	417	417	1	2
##	418	418	1	2
			1	
##	427	427		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
##	508	508	1	1
##	510	510	1	3
##	511	511	1	3
##	513	513	1	1
##	514	514	1	1
##	517	517	1	2
##	519	519	1	2
##	521	521	1	1
##	524	524	1	1
##	527	527	1	2
##	531	531	1	2
				3
##	534	534	1	
##	536	536	1	2
##	538	538	1	1
##	540	540	1	1
##	541	541	1	1
##	544	544	1	2
			-	-

## 5	47	547	1	2
## 5	48	548	1	2
## 5	50	550	1	2
	51	551	1	1
## 5	54	554	1	3
## 5	55	555	1	3
	57	557	1	1
			1	
	59	559		1
	60	560	1	3
## 5	70	570	1	3
## 5	71	571	1	2
## 5	72	572	1	1
	73	573	1	1
	74	574	1	3
## 5	77	577	1	2
## 5	78	578	1	1
	80	580	1	3
			1	
	81	581		2
## 5	82	582	1	1
## 5	86	586	1	1
## 5	88	588	1	1
	92	592	1	1
	97	597	1	2
	00	600	1	1
## 6	01	601	1	2
## 6	05	605	1	1
	08	608	1	1
	09	609	1	2
## 6	10	610	1	1
## 6	13	613	1	3
## 6	16	616	1	2
	19	619	1	2
	22			1
		622	1	
	23	623	1	3
## 6	28	628	1	1
## 6	31	631	1	1
	33	633	1	1
	36	636	1	2
	42	642	1	1
## 6	44	644	1	3
## 6	45	645	1	3
	46	646	1	1
	48	648	1	1
	50	650	1	3
## 6	52	652	1	2
## 6	54	654	1	3
	61	661	1	1
	65	665	1	3
	70	670	1	1
## 6	71	671	1	2
## 6	74	674	1	2
	78	678	1	3
	80	680	1	1
## 6	82	682	1	1

##	690	690	1	1
##	691	691	1	1
##	692	692	1	3
##	693	693	1	3
##	698	698	1	3
##	701	701	1	1
##	702	702	1	1
##	707	707	1	2
##	708	708	1	1
##	709	709	1	1
##	710	710	1	3
##	711	711	1	1
##				
	713	713	1	1
##	717	717	1	1
##	718	718	1	2
##	721	721	1	2
##	725	725	1	1
##	727	727	1	2
##	728	728	1	3
##	731	731	1	1
##	738	738	1	1
##	741	741	1	1
##	743	743	1	1
##	745	745	1	3
##	748	748	1	2
##	751	751	1	2
##	752	752	1	3
##	755	755	1	2
##	756	756	1	2
##	760	760	1	1
##	763	763	1	3
##	764	764	1	1
##	766	766	1	1
##	775	775	1	2
##	778	778	1	3
##	780	780	1	1
##	781	781	1	3
##	782	782	1	1
##	787	787	1	3
##	789	789	1	3
##	797	797	1	1
##	798	798	1	3
##	802	802	1	2
##	803	803	1	1
##	804	804	1	3
##	805	805	1	3
##	810	810	1	1
##	821	821	1	1
##	822	822	1	3
##	824	824	1	3
##	828	828	1	2
##	829	829	1	3
			1	1
##	830	830		
##	831	831	1	3

```
## 832
                832
                            1
## 836
                836
                            1
                                   1
## 839
               839
                            1
                                   3
## 840
               840
                            1
                                   1
## 843
                843
                            1
                                   1
## 850
               850
                            1
                                   1
## 854
                854
                           1
                                   1
## 856
                                   3
                856
                            1
## 857
                857
                            1
                                   1
## 858
                                   1
               858
                            1
## 859
               859
                            1
                                   3
## 863
                863
                            1
                                   1
                            1
                                   2
## 866
                866
                                   2
## 867
                867
                            1
## 870
                870
                            1
                                   3
## 872
                872
                            1
                                   1
## 875
               875
                            1
                                   2
## 876
                                   3
               876
                            1
## 880
               880
                           1
                                   1
                                   2
                            1
## 881
               881
## 888
               888
                            1
                                   1
## 890
               890
                            1
                                   1
##
                                                                                          Name
## 2
                                        Cumings, Mrs. John Bradley (Florence Briggs Thayer)
## 3
                                                                       Heikkinen, Miss. Laina
## 4
                                                Futrelle, Mrs. Jacques Heath (Lily May Peel)
## 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	Goldsmith, Master. Frank John William "Frankie"
## 167	Chibnall, Mrs. (Edith Martha Bowerman)
## 173	Johnson, Miss. Eleanor Ileen
## 184	Becker, Master. Richard F
## 185	Kink-Heilmann, Miss. Luise Gretchen
## 187	O'Brien, Mrs. Thomas (Johanna "Hannah" Godfrey)
## 188	Romaine, Mr. Charles Hallace ("Mr C Rolmane")
## 191	Pinsky, Mrs. (Rosa)
## 193	Andersen-Jensen, Miss. Carla Christine Nielsine
## 194	Navratil, Master. Michel M
## 195	Brown, Mrs. James Joseph (Margaret Tobin)
## 196	Lurette, Miss. Elise
## 199	Madigan, Miss. Margaret "Maggie"
## 205	Cohen, Mr. Gurshon "Gus"
## 208	Albimona, Mr. Nassef Cassem
## 209	Carr, Miss. Helen "Ellen"
## 210	Blank, Mr. Henry
## 212	Cameron, Miss. Clear Annie
## 216	Newell, Miss. Madeleine
## 217 ## 010	Honkanen, Miss. Eliina
## 219	Bazzani, Miss. Albina
## 221 ## 005	Sunderland, Mr. Victor Francis
## 225 ## 807	Hoyt, Mr. Frederick Maxfield
## 227	Mellors, Mr. William John
## 231	Harris, Mrs. Henry Birkhardt (Irene Wallach)
## 234 ## 838	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
	258 259	Cherry, Miss. Gladys
	260	Ward, Miss. Anna 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
	304 306	Keane, Miss. Nora A
	307	Allison, Master. Hudson Trevor 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	Burns, Miss. Elizabeth Margaret
	339	Dahl, Mr. Karl Edwart
	341	Navratil, Master. Edmond Roger
	342 346	Fortune, Miss. Alice Elizabeth 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
		·

	000	W 12 W W 11737 W
	360	Mockler, Miss. Helen Mary "Ellie"
	367 368	Warren, Mrs. Frank Manley (Anna Sophia Atkinson)
	369	Moussa, Mrs. (Mantoura Boulos) Jermyn, Miss. Annie
	370	Aubart, Mme. Leontine Pauline
	371	Harder, Mr. George Achilles
	376	Meyer, Mrs. Edgar Joseph (Leila Saks)
	377	Landergren, Miss. Aurora Adelia
	381	Bidois, Miss. Rosalie
	382	Nakid, Miss. Maria ("Mary")
	384	Holverson, Mrs. Alexander Oskar (Mary Aline Towner)
##	388	Buss, Miss. Kate
##	390	Lehmann, Miss. Bertha
##	391	Carter, Mr. William Ernest
##	392	Jansson, Mr. Carl Olof
##	394	Newell, Miss. Marjorie
	395	Sandstrom, Mrs. Hjalmar (Agnes Charlotta Bengtsson)
##	400	Trout, Mrs. William H (Jessie L)
	401	Niskanen, Mr. Juha
	408	Richards, Master. William Rowe
	413	Minahan, Miss. Daisy E
	415	Sundman, Mr. Johan Julian
	417	Drew, Mrs. James Vivian (Lulu Thorne Christian)
	418	Silven, Miss. Lyyli Karoliina
	427	Clarke, Mrs. Charles V (Ada Maria Winfield)
	428	Phillips, Miss. Kate Florence ("Mrs Kate Louise Phillips Marshall")
	430 431	Pickard, Mr. Berk (Berk Trembisky) Bjornstrom-Steffansson, Mr. Mauritz Hakan
	432	Thorneycroft, Mrs. Percival (Florence Kate White)
	433	Louch, Mrs. Charles Alexander (Alice Adelaide Slow)
	436	Carter, Miss. Lucile Polk
	438	Richards, Mrs. Sidney (Emily Hocking)
	441	Hart, Mrs. Benjamin (Esther Ada Bloomfield)
##	444	Reynaldo, Ms. Encarnacion
##	445	Johannesen-Bratthammer, Mr. Bernt
##	446	Dodge, Master. Washington
##	447	Mellinger, Miss. Madeleine Violet
##	448	Seward, Mr. Frederic Kimber
##	449	Baclini, Miss. Marie Catherine
##	450	Peuchen, Major. Arthur Godfrey
##	454	Goldenberg, Mr. Samuel L
	456	Jalsevac, Mr. Ivan
	458	Kenyon, Mrs. Frederick R (Marion)
	459	Toomey, Miss. Ellen
	461	Anderson, Mr. Harry
	470	Baclini, Miss. Helene Barbara
	473	West, Mrs. Edwy Arthur (Ada Mary Worth)
	474	Jerwan, Mrs. Amin S (Marie Marthe Thuillard)
	480	Hirvonen, Miss. Hildur E
	484	Turkula, Mrs. (Hedwig)
	485	Bishop, Mr. Dickinson H
	487	Hoyt, Mrs. Frederick Maxfield (Jane Anne Forby)
	490	Coutts, Master. Eden Leslie "Neville"
##	497	Eustis, Miss. Elizabeth Mussey

	505	Maioni, Miss. Roberta
	507	Quick, Mrs. Frederick Charles (Jane Richards)
##	508	Bradley, Mr. George ("George Arthur Brayton")
	510	Lang, Mr. Fang
	511	Daly, Mr. Eugene Patrick
	513	McGough, Mr. James Robert
	514	Rothschild, Mrs. Martin (Elizabeth L. Barrett)
	517	Lemore, Mrs. (Amelia Milley)
	519	Angle, Mrs. William A (Florence "Mary" Agnes Hughes)
	521	Perreault, Miss. Anne
	524	Hippach, Mrs. Louis Albert (Ida Sophia Fischer)
	527	Ridsdale, Miss. Lucy
	531	Quick, Miss. Phyllis May
	534	Peter, Mrs. Catherine (Catherine Rizk)
	536	Hart, Miss. Eva Miriam
	538	LeRoy, Miss. Bertha
	540	Frolicher, Miss. Hedwig Margaritha
	541	Crosby, Miss. Harriet R
	544	Beane, Mr. Edward
	547	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
	557 559	Duff Gordon, Lady. (Lucille Christiana Sutherland) ("Mrs Morgan")
	560	Taussig, Mrs. Emil (Tillie Mandelbaum) 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	Murphy, Miss. Margaret Jane
##	616	Herman, Miss. Alice
##	619	Becker, Miss. Marion Louise
##	622	Kimball, Mr. Edwin Nelson Jr
##	623	Nakid, Mr. Sahid
##	628	Longley, Miss. Gretchen Fiske

	631	Barkworth, Mr. Algernon Henry Wilson
	633	Stahelin-Maeglin, Dr. Max
	636	Davis, Miss. Mary
	642	Sagesser, Mlle. Emma
	644	Foo, Mr. Choong
	645	Baclini, Miss. Eugenie
	646	Harper, Mr. Henry Sleeper
	648	Simonius-Blumer, Col. Oberst Alfons
	650	Stanley, Miss. Amy Zillah Elsie
	652	Doling, Miss. Elsie
	654	O'Leary, Miss. Hanora "Norah"
	661	Frauenthal, Dr. Henry William
	665	Lindqvist, Mr. Eino William
	670	Taylor, Mrs. Elmer Zebley (Juliet Cummins Wright)
	671	Brown, Mrs. Thomas William Solomon (Elizabeth Catherine Ford)
	674	Wilhelms, Mr. Charles
	678	Turja, Miss. Anna Sofia
	680	Cardeza, Mr. Thomas Drake Martinez
	682	Hassab, Mr. Hammad
	690	Madill, Miss. Georgette Alexandra
	691	Dick, Mr. Albert Adrian
	692	Karun, Miss. Manca
	693	Lam, Mr. Ali
	698	Mullens, Miss. Katherine "Katie"
	701	Astor, Mrs. John Jacob (Madeleine Talmadge Force)
	702	Silverthorne, Mr. Spencer Victor
	707	Kelly, Mrs. Florence "Fannie"
	708	Calderhead, Mr. Edward Pennington
	709	Cleaver, Miss. Alice
	710	Moubarek, Master. Halim Gonios ("William George")
	711	Mayne, Mlle. Berthe Antonine ("Mrs de Villiers")
	713	Taylor, Mr. Elmer Zebley
	717	Endres, Miss. Caroline Louise
	718	Troutt, Miss. Edwina Celia "Winnie"
	721	Harper, Miss. Annie Jessie "Nina"
	725	Chambers, Mr. Norman Campbell
	727	Renouf, Mrs. Peter Henry (Lillian Jefferys)
	728	Mannion, Miss. Margareth
	731	Allen, Miss. Elisabeth Walton
	738	Lesurer, Mr. Gustave J
	741	Hawksford, Mr. Walter James
	743	Ryerson, Miss. Susan Parker "Suzette"
	745	Stranden, Mr. Juho
	748	Sinkkonen, Miss. Anna
	751	Wells, Miss. Joan
	752	Moor, Master. Meier
	755	Herman, Mrs. Samuel (Jane Laver)
	756	Hamalainen, Master. Viljo
	760	Rothes, the Countess. of (Lucy Noel Martha Dyer-Edwards)
	763	Barah, Mr. Hanna Assi
	764	Carter, Mrs. William Ernest (Lucile Polk)
	766	Hogeboom, Mrs. John C (Anna Andrews)
	775	Hocking, Mrs. Elizabeth (Eliza Needs)
##	778	Emanuel, Miss. Virginia Ethel

```
## 780
                                     Robert, Mrs. Edward Scott (Elisabeth Walton McMillan)
## 781
                                                                        Ayoub, Miss. Banoura
## 782
                                                  Dick, Mrs. Albert Adrian (Vera Gillespie)
## 787
                                                                   Sjoblom, Miss. Anna Sofia
## 789
                                                                 Dean, Master. Bertram Vere
## 797
                                                                Leader, Dr. Alice (Farnham)
                                                                            Osman, Mrs. Mara
## 798
## 802
                                                Collyer, Mrs. Harvey (Charlotte Annie Tate)
## 803
                                                        Carter, Master. William Thornton II
## 804
                                                            Thomas, Master. Assad Alexander
## 805
                                                                     Hedman, Mr. Oskar Arvid
## 810
                                            Chambers, Mrs. Norman Campbell (Bertha Griggs)
## 821
                                        Hays, Mrs. Charles Melville (Clara Jennings Gregg)
## 822
                                                                           Lulic, Mr. Nikola
## 824
                                                                          Moor, Mrs. (Beila)
## 828
                                                                       Mallet, Master. Andre
## 829
                                                               McCormack, Mr. Thomas Joseph
## 830
                                                  Stone, Mrs. George Nelson (Martha Evelyn)
## 831
                                                    Yasbeck, Mrs. Antoni (Selini Alexander)
## 832
                                                            Richards, Master. George Sibley
## 836
                                                                 Compton, Miss. Sara Rebecca
## 839
                                                                             Chip, Mr. Chang
## 840
                                                                       Marechal, Mr. Pierre
## 843
                                                                     Serepeca, Miss. Augusta
## 850
                                               Goldenberg, Mrs. Samuel L (Edwiga Grabowska)
## 854
                                                                  Lines, Miss. Mary Conover
## 856
                                                                 Aks, Mrs. Sam (Leah Rosen)
## 857
                                                 Wick, Mrs. George Dennick (Mary Hitchcock)
## 858
                                                                      Daly, Mr. Peter Denis
## 859
                                                      Baclini, Mrs. Solomon (Latifa Qurban)
## 863
                                       Swift, Mrs. Frederick Joel (Margaret Welles Barron)
## 866
                                                                   Bystrom, Mrs. (Karolina)
## 867
                                                               Duran y More, Miss. Asuncion
## 870
                                                            Johnson, Master. Harold Theodor
## 872
                                          Beckwith, Mrs. Richard Leonard (Sallie Monypeny)
## 875
                                                      Abelson, Mrs. Samuel (Hannah Wizosky)
## 876
                                                           Najib, Miss. Adele Kiamie "Jane"
## 880
                                             Potter, Mrs. Thomas Jr (Lily Alexenia Wilson)
## 881
                                               Shelley, Mrs. William (Imanita Parrish Hall)
## 888
                                                               Graham, Miss. Margaret Edith
## 890
                                                                       Behr, Mr. Karl Howell
##
                Age SibSp Parch
                                                                        Cabin
          Sex
                                            Ticket
                                                        Fare
                                                     71.2833
##
  2
       female 38.00
                               0
                                          PC 17599
                                                                          C85
##
  3
                         0
                               0
                                  STON/02. 3101282
       female 26.00
                                                     7.9250
## 4
       female 35.00
                         1
                                            113803
                                                     53.1000
                                                                         C123
       female 27.00
                               2
## 9
                         0
                                            347742
                                                     11.1333
## 10
       female 14.00
                         1
                                            237736
                                                     30.0708
## 11
       female 4.00
                                                                           G6
                               1
                                           PP 9549
                                                     16.7000
## 12
       female 58.00
                         0
                               0
                                            113783
                                                     26.5500
                                                                         C103
                         0
                               0
## 16
       female 55.00
                                            248706
                                                     16.0000
## 18
                         0
                               0
                                            244373
                                                     13.0000
         male
                 NΑ
                               0
## 20
                         0
       female
                 NA
                                              2649
                                                      7.2250
## 22
         male 34.00
                         0
                               0
                                            248698
                                                    13.0000
                                                                          D56
                         0
                               0
## 23
      female 15.00
                                            330923
                                                     8.0292
```

##	24	male	28.00	0	0	113788	35.5000	A6
##	26	female	38.00	1	5	347077	31.3875	
##	29	female	NA	0	0	330959	7.8792	
##	32	female	NA	1	0	PC 17569	146.5208	B78
##	33	female	NA	0	0	335677	7.7500	
##	37	male	NA	0	0	2677	7.2292	
##	40	female	14.00	1	0	2651	11.2417	
##	44	female	3.00	1	2	SC/Paris 2123	41.5792	
##	45	female	19.00	0	0	330958	7.8792	
##	48	female	NA	0	0	14311	7.7500	
##	53	female	49.00	1	0	PC 17572	76.7292	D33
##	54	female	29.00	1	0	2926	26.0000	
##	56	male	NA	0	0	19947	35.5000	C52
##	57	female	21.00	0	0	C.A. 31026	10.5000	
##	59	female	5.00	1	2	C.A. 34651	27.7500	
##	62	female	38.00	0	0	113572	80.0000	B28
##	66	male	NA	1	1	2661	15.2458	
##	67	female	29.00	0	0	C.A. 29395	10.5000	F33
##	69	female	17.00	4	2	3101281	7.9250	
##	75	male	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		29.00	0	0	345779	9.5000	
##	83	female	NA	0	0	330932	7.7875	
	85	female		0	0	SO/C 14885	10.5000	
##	86	female		3	0	3101278	15.8500	
##	89	female		3	2		263.0000	C23 C25 C27
##	98	male	23.00	0	1	PC 17759	63.3583	D10 D12
	99	female		0	1	231919	23.0000	
##	107	female		0	0	343120	7.6500	
##	108	male	NA	0	0	312991	7.7750	
##		female	NA	1	0	371110	24.1500	
##		female		0	0	27267	13.0000	E101
##	126		12.00	1	0	2651	11.2417	
##	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	
##		female		1	0	113776	66.6000	C2
##		female		0	0	35851	7.7333	
##	162	female	40.00	0	0	C.A. 33595	15.7500	
##	166	male	9.00	0	2	363291	20.5250	
##		female	NA	0	1	113505	55.0000	E33
##		female	1.00	1	1	347742	11.1333	
##	184	male	1.00	2	1	230136	39.0000	F4
##		female	4.00	0	2	315153	22.0250	
##		female	NA	1	0	370365	15.5000	
##	188		45.00	0	0	111428	26.5500	
		female		0	0	234604	13.0000	
		female		1	0	350046	7.8542	
	194	male	3.00	1	1	230080	26.0000	F2
			2.00	-	-	200000		

##	195	female	44.00	0	0	PC 17610	27.7208	В4
##	196	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	female	16.00	0	0	367231	7.7500	
##	210	male	40.00	0	0	112277	31.0000	A31
##	212	female	35.00	0	0	F.C.C. 13528	21.0000	
##	216	female	31.00	1	0	35273	113.2750	D36
##	217	female	27.00	0	0	STON/02. 3101283	7.9250	
##	219	female	32.00	0	0	11813	76.2917	D15
##	221	male	16.00	0	0	SOTON/OQ 392089	8.0500	
##	225	male	38.00	1	0	19943	90.0000	C93
##	227	male	19.00	0	0	SW/PP 751	10.5000	
##	231	female	35.00	1	0	36973	83.4750	C83
##	234	female	5.00	4	2	347077	31.3875	
##	238	female	8.00	0	2	C.A. 31921	26.2500	
##	242	female	NA	1	0	367230	15.5000	
##	248	female	24.00	0	2	250649	14.5000	
##	249	male	37.00	1	1	11751	52.5542	D35
##	256	female	29.00	0	2	2650	15.2458	
##	257	female	NA	0	0	PC 17585	79.2000	
##	258	female	30.00	0	0	110152	86.5000	B77
##	259	female	35.00	0	0	PC 17755	512.3292	
##	260	female	50.00	0	1	230433	26.0000	
##	262	male	3.00	4	2	347077	31.3875	
##	268	male	25.00	1	0	347083	7.7750	
##	269	female	58.00	0	1	PC 17582		C125
##	270	female	35.00	0	0	PC 17760	135.6333	C99
##	272	male	25.00	0	0	LINE	0.0000	
##	273	female	41.00	0	1	250644	19.5000	
##	275	female	NA	0	0	370375	7.7500	
##	276	female	63.00	1	0	13502	77.9583	D7
##	280	female	35.00	1	1	C.A. 2673	20.2500	
##	284	male	19.00	0	0	A/5. 10482	8.0500	
##	287	male	30.00	0	0	345774	9.5000	
##	289	male	42.00	0	0	237798	13.0000	
##	290	female	22.00	0	0	370373	7.7500	
##	291	female	26.00	0	0	19877	78.8500	
##	292	female	19.00	1	0	11967	91.0792	B49
##	299	male	NA	0	0	19988	30.5000	C106
##	300	female	50.00	0	1	PC 17558	247.5208	B58 B60
##	301	female	NA	0	0	9234	7.7500	
##	302	male	NA	2	0	367226	23.2500	
##	304	${\tt female}$	NA	0	0	226593	12.3500	E101
##	306	male	0.92	1	2	113781	151.5500	C22 C26
##	307	${\tt female}$	NA	0	0	17421	110.8833	
##	308	${\tt female}$	17.00	1	0	PC 17758	108.9000	C65
##	310	${\tt female}$	30.00	0	0	PC 17485	56.9292	E36
##	311	${\tt female}$	24.00	0	0	11767	83.1583	C54
##	312	${\tt female}$	18.00	2	2	PC 17608	262.3750	B57 B59 B63 B66
##	316	${\tt female}$	26.00	0	0	347470	7.8542	
##	317	${\tt female}$	24.00	1	0	244367	26.0000	
##	319	${\tt female}$	31.00	0	2	36928	164.8667	C7

		female		1	1		134.5000	E34
		female		0	0	234818	12.3500	
		female		1	1	248738	29.0000	
##		female		0	0	PC 17760		C32
##		female		0	0	28551	13.0000	D
##		female		1	1	363291	20.5250	
##		female		0	1	111361	57.9792	B18
##		female	NA	2	0	367226	23.2500	
##		female	NA	1	0	PC 17611		
##		female		0	0		134.5000	E40
##	339	male	45.00	0	0	7598	8.0500	
##	341	male	2.00	1	1	230080	26.0000	F2
##		female		3	2		263.0000	C23 C25 C27
##		female		0	0	248733	13.0000	F33
##	347	female	40.00	0	0	31418	13.0000	
##	348	female	NA	1	0	386525	16.1000	
##	349	${\tt male}$	3.00	1	1	C.A. 37671	15.9000	
##	357	${\tt female}$	22.00	0	1	113505	55.0000	E33
##	359	female	NA	0	0	330931	7.8792	
##	360	${\tt female}$	NA	0	0	330980	7.8792	
##	367	${\tt female}$	60.00	1	0	110813	75.2500	D37
##	368	${\tt female}$	NA	0	0	2626	7.2292	
##	369	${\tt female}$	NA	0	0	14313	7.7500	
##	370	${\tt female}$	24.00	0	0	PC 17477	69.3000	B35
##	371	male	25.00	1	0	11765	55.4417	E50
##	376	${\tt female}$	NA	1	0	PC 17604	82.1708	
##	377	${\tt female}$	22.00	0	0	C 7077	7.2500	
##	381	${\tt female}$	42.00	0	0	PC 17757	227.5250	
##	382	${\tt female}$	1.00	0	2	2653	15.7417	
##	384	${\tt female}$	35.00	1	0	113789	52.0000	
##	388	${\tt female}$	36.00	0	0	27849	13.0000	
##	390	${\tt female}$	17.00	0	0	SC 1748	12.0000	
##	391	male	36.00	1	2	113760	120.0000	B96 B98
##	392	male	21.00	0	0	350034	7.7958	
##	394	${\tt female}$	23.00	1	0	35273	113.2750	D36
##	395	${\tt female}$	24.00	0	2	PP 9549	16.7000	G6
##	400	${\tt female}$	28.00	0	0	240929	12.6500	
##	401	male	39.00	0	0	STON/O 2. 3101289	7.9250	
##	408	male	3.00	1	1	29106	18.7500	
##	413	${\tt female}$	33.00	1	0	19928	90.0000	C78
##	415	male	44.00	0	0	STON/O 2. 3101269	7.9250	
##	417	${\tt female}$	34.00	1	1	28220	32.5000	
##	418	${\tt female}$	18.00	0	2	250652	13.0000	
##	427	female	28.00	1	0	2003	26.0000	
##	428	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
		${\tt female}$	NA	1	0	376564	16.1000	
##	433	${\tt female}$	42.00	1	0	SC/AH 3085	26.0000	
##	436	${\tt female}$	14.00	1	2	113760	120.0000	B96 B98
		${\tt female}$		2	3	29106	18.7500	
##	441	${\tt female}$	45.00	1	1	F.C.C. 13529	26.2500	
##	444	${\tt female}$	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	${\tt female}$	13.00	0	1	250644	19.5000	
##	448	male	34.00	0	0	113794	26.5500	
##	449	${\tt female}$	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	${\tt female}$	NA	1	0	17464	51.8625	D21
##	459	${\tt female}$	50.00	0	0	F.C.C. 13531	10.5000	
##	461	male	48.00	0	0	19952	26.5500	E12
##	470	${\tt female}$	0.75	2	1	2666	19.2583	
##	473	female	33.00	1	2	C.A. 34651	27.7500	
##	474	female	23.00	0	0	SC/AH Basle 541	13.7917	D
##	480	female	2.00	0	1	3101298	12.2875	
##	484	female	63.00	0	0	4134	9.5875	
	485		25.00	1	0	11967	91.0792	B49
##	487	female	35.00	1	0	19943	90.0000	C93
	490	male	9.00	1	1	C.A. 37671	15.9000	
		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	700
		female		0	0	C.A. 34260	10.5000	F33
		female		1	0	226875	26.0000	770
		female		0	0	12749	93.5000	B73
		female		0	1	111361	57.9792	B18
		female		0	0	W./C. 14258	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		DOO
		<pre>female female</pre>		0	2 2	13568	49.5000 71.0000	B39 B22
				0		WE/P 5735		DZZ
	544		32.00	1	0	2908	26.0000	
		female male		1	0	2908 SC/PARIS 2146	26.0000 13.8625	
	548 550	male	NA 8.00	0	0	C.A. 33112		
	551		17.00	1 0	1 2		36.7500 110.8833	C70
	554		22.00	0	0	2620	7.2250	670
		female		0	0	347085	7.7750	
		female		1	0	11755	39.6000	A16
		female		1	1	110413	79.6500	E67
		female		1	0	345572	17.4000	БОТ
	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	220
		female		0	0	243880	13.0000	
		female		1	0	13507	55.9000	E44
				_	-	===•		= = -

##	580	male	32.00	0	0	STON/O 2. 3101286	7.9250	
##	581	female	25.00	1	1	237789	30.0000	
##	582	female	39.00	1	1	17421	110.8833	C68
##	586	female	18.00	0	2	110413	79.6500	E68
##	588	male	60.00	1	1	13567	79.2000	B41
##	592	female	52.00	1	0	36947	78.2667	D20
##	597	female	NA	0	0	248727	33.0000	
##	600	male	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	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	female	28.00	0	0	237668	13.0000	
##	642	female	24.00	0	0	PC 17477	69.3000	B35
##	644	male	NA	0	0	1601	56.4958	
##	645	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	${\tt female}$	23.00	0	0	CA. 2314	7.5500	
##	652	${\tt female}$	18.00	0	1	231919	23.0000	
##	654	${\tt female}$	NA	0	0	330919	7.8292	
##	661	male	50.00	2	0	PC 17611	133.6500	
##	665	male	20.00	1	0	STON/O 2. 3101285	7.9250	
##	670	${\tt female}$	NA	1	0	19996	52.0000	C126
##	671	${\tt female}$	40.00	1	1	29750	39.0000	
##	674	male	31.00	0	0	244270	13.0000	
##	678	${\tt female}$	18.00	0	0	4138	9.8417	
##	680		36.00	0	1		512.3292	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		B20
		female	4.00	0	1	349256		
	693	male	NA	0	0	1601		
		female	NA	0	0	35852	7.7333	
		female		1	0		227.5250	C62 C64
	702		35.00	0	0	PC 17475	26.2875	E24
		female		0	0	223596		
	708		42.00	0	0	PC 17476		E24
		female		0	0		151.5500	
	710	male	NA	1	1	2661	15.2458	.
##		female		0	0	PC 17482		C90
	713		48.00	1	0	19996		C126
##	117	female	38.00	0	0	PC 17757	227.5250	C45
11. 11		c 7	07 00	^	^	04010		
	718	female female		0	0 1	34218 248727	10.5000	E101

##	725	male	27.00	1	0	113806	53.1000	E8
		female		3	0	31027	21.0000	20
		female	NA	0	0	36866	7.7375	
##		female	29.00	0	0		211.3375	В5
##	738	male	35.00	0	0	PC 17755		B101
##	741	male	NA	0	0	16988	30.0000	D45
##	743	female	21.00	2	2	PC 17608	262.3750	B57 B59 B63 B66
##	745	male	31.00	0	0	STON/O 2. 3101288	7.9250	
##	748	female	30.00	0	0	250648	13.0000	
##	751	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	65.0000	
##	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	${\tt female}$	36.00	1	2	113760	120.0000	B96 B98
##	766	${\tt female}$	51.00	1	0	13502	77.9583	D11
##	775	${\tt female}$	54.00	1	3	29105	23.0000	
##	778	${\tt female}$	5.00	0	0	364516	12.4750	
##	780	${\tt female}$	43.00	0	1	24160	211.3375	В3
##	781	${\tt female}$	13.00	0	0	2687	7.2292	
##	782	${\tt female}$	17.00	1	0	17474	57.0000	B20
##	787	${\tt female}$	18.00	0	0	3101265	7.4958	
##	789	male	1.00	1	2	C.A. 2315	20.5750	
##	797	${\tt female}$	49.00	0	0	17465	25.9292	D17
##	798	female	31.00	0	0	349244	8.6833	
##	802	female	31.00	1	1	C.A. 31921	26.2500	
##	803		11.00	1	2		120.0000	B96 B98
##	804	male	0.42	0	1	2625	8.5167	
	805		27.00	0	0	347089	6.9750	
		female		1	0	113806	53.1000	E8
		female		1	1	12749	93.5000	B69
	822		27.00	0	0	315098	8.6625	
		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	700
		female		0	0	113572	80.0000	B28
		female		1	0	2659	14.4542	
	832	male	0.83	1	1	29106	18.7500	T40
		female		1	1	PC 17756	83.1583	E49
	839		32.00	0	0	1601	56.4958	047
	840	male	NA	0	0	11774	29.7000	C47
		female female		0	0	113798	31.0000	COO
		female	NA	1	0	17453		C92
		female		0	1	PC 17592		D28
		female		0 1	1 1	392091	9.3500 164.8667	
	858		51.00	0	0	113055	26.5500	E17
		female		0	3	2666	19.2583	1517
		female		0	0	17466	25.9292	D17
		female		0	0	236852	13.0000	DII
		female		1	0	SC/PARIS 2149		
	870	male	4.00	1	1	347742	11.1333	
		female		1	1	11751	52.5542	D35
ırπ	U12	- omare	11.00	_	_	11701	02.0042	200

```
## 875 female 28.00
                                           P/PP 3381 24.0000
                          1
## 876 female 15.00
                                                 2667
                                                        7.2250
                          0
                                 0
## 880 female 56.00
                                               11767 83.1583
                                                                              C50
## 881 female 25.00
                          0
                                               230433
                                                        26.0000
                                 1
## 888 female 19.00
                                               112053
                                                        30.0000
                                                                              B42
                          0
                                 0
## 890
         male 26.00
                          0
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                                               111369 30.0000
                                                                             C148
       Embarked
##
## 2
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##	129	С
##	134	S
##	137	S
##	142	S
##	143	S
##	147	S
##	152	S
##	157	Q
##	162	S
##	166	S
##	167	S
##	173	S
##	184	S
##	185	S
##	187	Q
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##	193	S
##	195	C
##	196	C
##	199	Q
##	205	S
##	208	C
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##	212	S
##	216	С
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##	219	С
##	221	S
##	225	S
##	227	S
##	231	S
##	234	S
##	238	S
##	242	Q
##	248	S
##	249	S
##	256 257	C
##	25 <i>1</i> 258	S
##	259	C
##	260	S
##	262	S
##	268	S
##	269	S
##	270	S
##	272	S
##	273	S
##	275	Q
##	276	S
##	280	S
##	284	S

## ##	287 289	s s
##	290	Q
##	291	S
##	292	C
##	299	S
##	300	C
##	301	Q
##	302	Q
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##	307	С
##	308	С
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##	311	C
##	312	C
##	316	S
##	317	S
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##	505	S
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##	510	S
##	511	Q
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##	541	S
##	544	S
##	547	S
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##	571	S
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##	674	S
##	014	S

##	678	S
##	680	C
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##	690	S
##	691	S
##	692	C
##	693	S
##	698	Q
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##	707 708	S
##	709	S
##	710	C
##	711	C
##	713	S
##	717	C
##	718	S
##	721	S
##	725	S
##	727	S
##	728	Q
##	731	S
##	738	C
##	741	S
##	743	C
##	745	S
##	748	S
##	751	S
##	752	S
##	755	S
##	756	S
##	760	S
##	763	C
##	764	S
##	766	S
##	775	S
##	778	S
##	780	S
##	781	C
##	782	S
##	787	S
##	789	S S
	797 798	S
##	802	S
	803	S
##	804	C
##	805	S
##	810	S
##	821	S
##	822	S
##	824	S
##	828	C
	220	O

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## 829
                Q
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## 881
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## 888
                S
                С
## 890
Dead <- subset(titanic_data, Survived == 0)</pre>
Dead
        PassengerId Survived Pclass
##
## 1
                                     3
                   1
                             0
## 5
                   5
                             0
                                     3
## 6
                   6
                             0
                                     3
## 7
                   7
                             0
                                     1
## 8
                             0
                                     3
                   8
## 13
                  13
                             0
                                     3
                                     3
## 14
                  14
                             0
## 15
                  15
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                                     3
## 17
                                     3
                  17
                             0
## 19
                  19
                             0
                                     3
                                     2
## 21
                             0
                  21
## 25
                  25
                             0
                                     3
## 27
                  27
                             0
                                     3
## 28
                  28
                             0
                                     1
## 30
                             0
                                     3
                  30
## 31
                  31
                             0
                                     1
                                     2
## 34
                  34
                             0
## 35
                  35
                             0
                                     1
## 36
                             0
                  36
                                     1
## 38
                  38
                             0
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## 39
                  39
                             0
## 41
                             0
                                     3
                  41
## 42
                  42
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                                     2
## 43
                             0
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                  43
## 46
                  46
                             0
                                     3
```

шш	47	47	0	2
##	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
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##	121	121	0	2
##	122	122	0	3
##	123	123	0	2
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## 125			1
## 127			3
## 130			3
## 131	l 13:	1 0	3
## 132	2 13:	2 0	3
## 133	3 13	3 0	3
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## 140			1
## 141			3
## 144			3
## 145			2
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## 151			2
## 153			3
## 154			3
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## 158	3 158	8 0	3
## 159) 159	9 0	3
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## 161			3
## 163			3
## 164			3
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## 172			3
## 174			3
## 175	5 17!	5 0	1
## 176			3
## 177			3
## 178		8 0	1
## 179	179	9 0	2
## 180	180	0 0	3
## 181	18:	1 0	3
## 182	2 185	2 0	2
## 183	183	3 0	3
## 186	186	6 0	1
## 189	189	9 0	3
## 190			3
## 192			2
## 197			3
## 198			3
## 200			2
## 201			3
## 202			3
## 202	20.	2 0	3

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##	203	203	0	3
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##	206	206	0	3
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##	293	293	U	2

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##	387	387	0	3
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##	397	397	0	3
				-

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## 399	399	0	2
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## 469	469	0	3
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## 479	479	0	3
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##	564	564	0	3
##	565	565	0	3
##	566	566	0	3
##	567	567	0	3
##			0	3
	568	568		
##	569	569 575	0	3
##	575	575	0	3

	F70	F70	^	_
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##	620	620	0	2
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##	624	624	0	3
##	625	625	0	3
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	627	627	0	2
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##	632	632	0	3
##	634	634	0	1
##	635	635	0	3
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##	656	656	0	2
##	657	657	0	3
##	658	658	0	3
##	659	659	0	2
##	660	660	0	1
##	662	662	0	3
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## 664	664	0	3
## 666	666	0	2
## 667	667	0	2
## 668	668	0	3
## 669	669	0	3
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## 686	686	0	2
## 687	687	0	3
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## 695	695	0	1
## 696	696	0	2
## 697	697	0	3
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## 715	715	0	2
## 716	716	0	3
## 719	719	0	3
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## 724	724	0	2
## 726	726	0	3
## 729	729	0	2
## 730	730	0	3
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## 733	733	0	2
## 734	734	0	2
## 735	735	0	2
## 736	736	0	3
## 737	737	0	3
## 739	739	0	3
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## 742	742	0	1
## 744	744	0	3
## 746	746	0	1
## 747	747	0	3

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##	768	768	0	3
##	769	769	0	3
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##	773	773	0	2
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##	785	785	0	3
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##	792	792	0	2
##	793	793	0	3
##	794	794	0	1
##	795	795	0	3
##	796	796	0	2
##	799	799	0	3
##	800	800	0	3
##	801	801	0	2
##	806	806	0	3
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##	807 808	807 808	0	1 3
##	809	809	0	2
##	811	811	0	3
##	812	812	0	
	813			3
## ##		813	0	2
	814 815	814		3
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##	825	825	0	3
##	826	826	0	3
##	827	827	0	3

```
## 833
                833
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## 834
                834
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## 835
                                    3
                835
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## 837
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                837
## 838
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## 841
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## 845
                845
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## 849
## 851
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## 855
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## 864
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## 865
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## 868
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## 869
                869
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## 871
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## 873
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                                    3
## 877
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## 878
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## 879
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                                    3
                879
## 882
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                            0
                                    3
## 883
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                            0
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## 884
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## 885
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## 886
                886
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                                    2
## 887
                887
                            0
## 889
                889
                            0
                                    3
## 891
                891
                            0
                                    3
##
                                                                  Name
                                                                           Sex Age SibSp
## 1
                                             Braund, Mr. Owen Harris
                                                                          male 22.0
## 5
                                            Allen, Mr. William Henry
                                                                          male 35.0
                                                                                         0
## 6
                                                     Moran, Mr. James
                                                                          male
                                                                                 NA
                                                                                         0
## 7
                                             McCarthy, Mr. Timothy J
                                                                          male 54.0
                                                                                         0
## 8
                                     Palsson, Master. Gosta Leonard
                                                                          male 2.0
                                                                                         3
## 13
                                     Saundercock, Mr. William Henry
                                                                          male 20.0
                                                                                         0
                                         Andersson, Mr. Anders Johan
## 14
                                                                          male 39.0
                                                                                         1
## 15
                               Vestrom, Miss. Hulda Amanda Adolfina female 14.0
                                                                                         0
## 17
                                                Rice, Master. Eugene
                                                                          male 2.0
                                                                                         4
## 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
## 28
                                     Fortune, Mr. Charles Alexander
                                                                          male 19.0
                                                                                         3
## 30
                                                 Todoroff, Mr. Lalio
                                                                          male
```

```
## 31
                                          Uruchurtu, Don. Manuel E
                                                                      male 40.0
## 34
                                             Wheadon, Mr. Edward H
                                                                      male 66.0
                                                                                     0
## 35
                                           Meyer, Mr. Edgar Joseph
                                                                      male 28.0
                                   Holverson, Mr. Alexander Oskar
## 36
                                                                      male 42.0
                                                                                     1
## 38
                                          Cann, Mr. Ernest Charles
                                                                      male 21.0
## 39
                                                                                     2
                               Vander Planke, Miss. Augusta Maria female 18.0
## 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
                                                                              NA
                                                                                     Λ
## 46
                                          Rogers, Mr. William John
                                                                      male
                                                                              NA
                                                                                     0
## 47
                                                 Lennon, Mr. Denis
                                                                      male
                                                                             NA
                                                                                     1
## 49
                                               Samaan, Mr. Youssef
                                                                             NA
                                                                                     2
                                                                      male
## 50
                    Arnold-Franchi, Mrs. Josef (Josefine Franchi) female 18.0
                                                                                     1
## 51
                                        Panula, Master. Juha Niilo
                                                                      male 7.0
## 52
                                     Nosworthy, Mr. Richard Cater
                                                                      male 21.0
## 55
                                   Ostby, Mr. Engelhart Cornelius
                                                                      male 65.0
                                                                                     0
## 58
                                               Novel, Mr. Mansouer
                                                                      male 28.5
                                                                                     0
## 60
                               Goodwin, Master. William Frederick
                                                                      male 11.0
                                             Sirayanian, Mr. Orsen
## 61
                                                                      male 22.0
                                                                                     0
## 63
                                       Harris, Mr. Henry Birkhardt
                                                                      male 45.0
## 64
                                             Skoog, Master. Harald
                                                                      male 4.0
                                                                                     3
## 65
                                             Stewart, Mr. Albert A
                                                                      male
                                                                             NA
## 68
                                          Crease, Mr. Ernest James
                                                                      male 19.0
                                                                                     0
## 70
                                                 Kink, Mr. Vincenz
                                                                      male 26.0
                                                                                     2
## 71
                                        Jenkin, Mr. Stephen Curnow
                                                                      male 32.0
                                                                                     0
## 72
                                        Goodwin, Miss. Lillian Amy female 16.0
                                                                                     5
## 73
                                              Hood, Mr. Ambrose Jr
                                                                      male 21.0
                                                                                     0
## 74
                                       Chronopoulos, Mr. Apostolos
                                                                      male 26.0
                                                                                     1
## 76
                                           Moen, Mr. Sigurd Hansen
                                                                      male 25.0
## 77
                                                 Staneff, Mr. Ivan
                                                                      male
                                                                                     0
                                                                             NA
## 78
                                          Moutal, Mr. Rahamin Haim
                                                                      male
                                                                              NA
                                                                                     0
## 81
                                              Waelens, Mr. Achille
                                                                      male 22.0
                                                                                     0
## 84
                                           Carrau, Mr. Francisco M
                                                                      male 28.0
## 87
                                            Ford, Mr. William Neal
                                                                      male 16.0
                                                                                     1
## 88
                                    Slocovski, Mr. Selman Francis
                                                                      male
                                                                             NA
                                                                                     0
                                            Celotti, Mr. Francesco
## 90
                                                                      male 24.0
                                                                                     0
## 91
                                              Christmann, Mr. Emil
                                                                      male 29.0
## 92
                                        Andreasson, Mr. Paul Edvin
                                                                      male 20.0
                                                                                     0
## 93
                                       Chaffee, Mr. Herbert Fuller
                                                                      male 46.0
## 94
                                           Dean, Mr. Bertram Frank
                                                                      male 26.0
## 95
                                                 Coxon, Mr. Daniel
                                                                      male 59.0
## 96
                                       Shorney, Mr. Charles Joseph
                                                                      male
                                                                             NA
                                                                                     0
## 97
                                         Goldschmidt, Mr. George B
                                                                      male 71.0
                                                                                     0
## 100
                                                 Kantor, Mr. Sinai
                                                                      male 34.0
                                                                                     1
## 101
                                           Petranec, Miss. Matilda female 28.0
## 102
                                 Petroff, Mr. Pastcho ("Pentcho")
                                                                      male
                                                                             NA
                                                                                     0
                                         White, Mr. Richard Frasar
## 103
                                                                      male 21.0
                                                                                     0
## 104
                                                                      male 33.0
                                        Johansson, Mr. Gustaf Joel
                                                                                     0
## 105
                                   Gustafsson, Mr. Anders Vilhelm
                                                                      male 37.0
                                                                                     2
## 106
                                             Mionoff, Mr. Stoytcho
                                                                      male 28.0
                                                                                     0
## 109
                                                                      male 38.0
                                                   Rekic, Mr. Tido
                                                                                     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
```

```
## 114
                                           Jussila, Miss. Katriina female 20.0
## 115
                                             Attalah, Miss. Malake female 17.0
                                                                                     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
## 121
                                      Hickman, Mr. Stanley George
                                                                      male 21.0
                                                                                     2
## 122
                                       Moore, Mr. Leonard Charles
                                                                      male
                                                                             NA
                                                                                     0
## 123
                                              Nasser, Mr. Nicholas
                                                                      male 32.5
                                                                                     1
## 125
                                      White, Mr. Percival Wayland
                                                                      male 54.0
## 127
                                               McMahon, Mr. Martin
                                                                      male
                                                                             NA
                                                                                     0
## 130
                                                Ekstrom, Mr. Johan
                                                                      male 45.0
                                                                                     0
## 131
                                              Drazenoic, Mr. Jozef
                                                                      male 33.0
## 132
                                   Coelho, Mr. Domingos Fernandeo
                                                                      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
## 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
                                                                             NA
## 144
                                               Burke, Mr. Jeremiah
                                                                      male 19.0
                                                                                     0
## 145
                                        Andrew, Mr. Edgardo Samuel
                                                                      male 18.0
## 146
                                     Nicholls, Mr. Joseph Charles
                                                                      male 19.0
## 148
                                 Ford, Miss. Robina Maggie "Ruby" female 9.0
                                                                                     2
## 149
                         Navratil, Mr. Michel ("Louis M Hoffman")
                                                                      male 36.5
                                                                                     0
## 150
                                Byles, Rev. Thomas Roussel Davids
                                                                      male 42.0
                                                                                     0
## 151
                                                                      male 51.0
                                        Bateman, Rev. Robert James
## 153
                                                  Meo, Mr. Alfonzo
                                                                      male 55.5
## 154
                                  van Billiard, Mr. Austin Blyler
                                                                      male 40.5
                                                                                     0
## 155
                                             Olsen, Mr. Ole Martin
                                                                      male
                                                                             NA
                                                                                     0
## 156
                                      Williams, Mr. Charles Duane
                                                                      male 51.0
## 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
## 163
                                        Bengtsson, Mr. John Viktor
                                                                      male 26.0
                                                                                     0
## 164
                                                   Calic, Mr. Jovo
                                                                      male 17.0
## 165
                                     Panula, Master. Eino Viljami
                                                                      male 1.0
## 168
                 Skoog, Mrs. William (Anna Bernhardina Karlsson) female 45.0
## 169
                                               Baumann, Mr. John D
                                                                             NA
                                                                                     0
                                                                      \mathtt{male}
                                                                      male 28.0
## 170
                                                     Ling, Mr. Lee
                                                                                     0
## 171
                                         Van der hoef, Mr. Wyckoff
                                                                      male 61.0
                                                                                     0
## 172
                                              Rice, Master. Arthur
                                                                      male 4.0
## 174
                                         Sivola, Mr. Antti Wilhelm
                                                                      male 21.0
                                                                                     0
## 175
                                           Smith, Mr. James Clinch
                                                                      male 56.0
                                                                                     0
## 176
                                            Klasen, Mr. Klas Albin
                                                                      male 18.0
## 177
                                    Lefebre, Master. Henry Forbes
                                                                      male
                                                                             NA
                                                                                     3
## 178
                                        Isham, Miss. Ann Elizabeth female 50.0
                                                                                     0
## 179
                                                Hale, Mr. Reginald
                                                                      male 30.0
                                                                                     0
## 180
                                               Leonard, Mr. Lionel
                                                                      male 36.0
## 181
                                     Sage, Miss. Constance Gladys female
                                                                                     8
                                                                             NA
## 182
                                                  Pernot, Mr. Rene
```

```
## 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
                                                                                     0
## 201
                                   Vande Walle, Mr. Nestor Cyriel
                                                                      male 28.0
                                                                                     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
## 211
                                                    Ali, Mr. Ahmed
                                                                      male 24.0
                                                                                     0
## 213
                                            Perkin, Mr. John Henry
                                                                      male 22.0
                                                                                     0
## 214
                                       Givard, Mr. Hans Kristensen
                                                                      male 30.0
                                                                                     0
## 215
                                               Kiernan, Mr. Philip
                                                                      male
## 218
                                                                      male 42.0
                                      Jacobsohn, Mr. Sidney Samuel
                                                                                     1
## 220
                                                Harris, Mr. Walter
                                                                      male 30.0
## 222
                                              Bracken, Mr. James H
                                                                      male 27.0
                                                                                     Λ
## 223
                                           Green, Mr. George Henry
                                                                      male 51.0
## 224
                                              Nenkoff, Mr. Christo
                                                                      male
                                                                              NA
                                                                                     0
## 226
                                     Berglund, Mr. Karl Ivar Sven
                                                                      male 22.0
                                                                                     0
## 228
                                  Lovell, Mr. John Hall ("Henry")
                                                                      male 20.5
                                                                                     0
## 229
                                        Fahlstrom, Mr. Arne Jonas
                                                                      male 18.0
                                                                                     0
## 230
                                           Lefebre, Miss. Mathilde female
                                                                             NA
                                                                                     3
## 232
                                          Larsson, Mr. Bengt Edvin
                                                                      male 29.0
                                                                                     0
## 233
                                                                      male 59.0
                                         Sjostedt, Mr. Ernst Adolf
## 235
                                Leyson, Mr. Robert William Norman
                                                                      male 24.0
                                                                                     0
## 236
                                     Harknett, Miss. Alice Phoebe female
                                                                              NA
                                                                                     0
## 237
                                                 Hold, Mr. Stephen
                                                                      male 44.0
                                                                                     1
## 239
                                  Pengelly, Mr. Frederick William
                                                                      male 19.0
## 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
## 245
                                              Attalah, Mr. Sleiman
                                                                      male 30.0
                                                                                     0
## 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
                                                                                     0
                                                                      male
                                                                              NΑ
## 252
                       Strom, Mrs. Wilhelm (Elna Matilda Persson) female 29.0
                                                                                     1
## 253
                                                                      male 62.0
                                                                                     0
                                         Stead, Mr. William Thomas
## 254
                                          Lobb, Mr. William Arthur
                                                                      male 30.0
                                                                                     1
## 255
                         Rosblom, Mrs. Viktor (Helena Wilhelmina) female 41.0
                                                                                     0
## 261
                                                 Smith, Mr. Thomas
                                                                      male
                                                                              NA
                                                                                     0
## 263
                                                 Taussig, Mr. Emil
                                                                      male 52.0
                                             Harrison, Mr. William
## 264
                                                                      male 40.0
                                                                                     0
## 265
                                                Henry, Miss. Delia female
                                                                              NA
                                                                                     0
## 266
                                                                      male 36.0
                                                 Reeves, Mr. David
                                                                                     0
## 267
                                         Panula, Mr. Ernesti Arvid
                                                                      male 16.0
## 271
                                             Cairns, Mr. Alexander
                                                                      male
                                                                                     0
                                                                             NA
## 274
                                             Natsch, Mr. Charles H
                                                                      male 37.0
```

```
## 277
                                Lindblom, Miss. Augusta Charlotta female 45.0
## 278
                                      Parkes, Mr. Francis "Frank"
                                                                      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
                                                                      male 16.0
                                        de Pelsmaeker, Mr. Alfons
                                                                                     0
## 285
                                       Smith, Mr. Richard William
                                                                      male
                                                                             NA
## 286
                                               Stankovic, Mr. Ivan
                                                                      male 33.0
                                                                                     0
## 288
                                              Naidenoff, Mr. Penko
                                                                      male 22.0
                                                                                     Λ
## 293
                                            Levy, Mr. Rene Jacques
                                                                      male 36.0
## 294
                                               Haas, Miss. Aloisia female 24.0
## 295
                                                  Mineff, Mr. Ivan
                                                                      male 24.0
                                                                                     0
## 296
                                                 Lewy, Mr. Ervin G
                                                                      male
                                                                             NA
                                                                                     0
## 297
                                                Hanna, Mr. Mansour
                                                                      male 23.5
## 298
                                     Allison, Miss. Helen Loraine female 2.0
## 303
                                  Johnson, Mr. William Cahoone Jr
                                                                      male 19.0
## 305
                                Williams, Mr. Howard Hugh "Harry"
                                                                      male
                                                                             NA
                                                                                     0
## 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
## 318
                                              Moraweck, Dr. Ernest
                                                                      male 54.0
                                                                      male 22.0
## 321
                                                Dennis, Mr. Samuel
                                                                                     0
## 322
                                                  Danoff, Mr. Yoto
                                                                      male 27.0
## 325
                                                                                     8
                                          Sage, Mr. George John Jr
                                                                      male
                                                                             NΑ
## 327
                                        Nysveen, Mr. Johan Hansen
                                                                      male 61.0
## 332
                                               Partner, Mr. Austen
                                                                      male 45.5
                                                                                     0
## 333
                                                                      male 38.0
                                        Graham, Mr. George Edward
                                                                                     0
                                  Vander Planke, Mr. Leo Edmondus
## 334
                                                                      male 16.0
## 336
                                                Denkoff, Mr. Mitto
                                                                      male
                                                                             NA
## 337
                                        Pears, Mr. Thomas Clinton
                                                                      male 29.0
## 340
                                     Blackwell, Mr. Stephen Weart
                                                                      male 45.0
                                                                                     0
## 343
                                       Collander, Mr. Erik Gustaf
                                                                      male 28.0
## 344
                      Sedgwick, Mr. Charles Frederick Waddington
                                                                      male 25.0
                                                                                     0
## 345
                                           Fox, Mr. Stanley Hubert
                                                                      male 36.0
                                                  Dimic, Mr. Jovan
## 350
                                                                      male 42.0
                                                                                     0
## 351
                                            Odahl, Mr. Nils Martin
                                                                      male 23.0
## 352
                           Williams-Lambert, Mr. Fletcher Fellows
                                                                      male
                                                                                     0
                                                                             NΑ
## 353
                                                Elias, Mr. Tannous
                                                                      male 15.0
## 354
                                        Arnold-Franchi, Mr. Josef
                                                                      male 25.0
## 355
                                                 Yousif, Mr. Wazli
                                                                      male
                                                                             NA
## 356
                                      Vanden Steen, Mr. Leo Peter
                                                                      male 28.0
                                                                                     0
## 358
                                        Funk, Miss. Annie Clemmer female 38.0
                                                                                     0
## 361
                                                                      male 40.0
                                                Skoog, Mr. Wilhelm
## 362
                                        del Carlo, Mr. Sebastiano
                                                                      male 29.0
## 363
                                  Barbara, Mrs. (Catherine David) female 45.0
                                                                                     0
## 364
                                                   Asim, Mr. Adola
                                                                      male 35.0
                                                                                     0
## 365
                                               O'Brien, Mr. Thomas
                                                                      male
## 366
                                   Adahl, Mr. Mauritz Nils Martin
                                                                      male 30.0
                                                                                     0
## 372
                                        Wiklund, Mr. Jakob Alfred
                                                                      male 18.0
## 373
                                                                      male 19.0
                                       Beavan, Mr. William Thomas
                                                                                     0
## 374
                                               Ringhini, Mr. Sante
                                                                      male 22.0
## 375
                                       Palsson, Miss. Stina Viola female 3.0
                                                                                     3
## 378
                                        Widener, Mr. Harry Elkins
                                                                      male 27.0
```

```
## 379
                                               Betros, Mr. Tannous
                                                                      male 20.0
## 380
                                      Gustafsson, Mr. Karl Gideon
                                                                      male 19.0
                                                                                     0
## 383
                                                Tikkanen, Mr. Juho
                                                                      male 32.0
## 385
                                            Plotcharsky, Mr. Vasil
                                                                      male
                                                                                     0
                                                                             NA
## 386
                                         Davies, Mr. Charles Henry
                                                                      male 18.0
## 387
                                  Goodwin, Master. Sidney Leonard
                                                                      male 1.0
## 389
                                              Sadlier, Mr. Matthew
                                                                      male
                                                                             NA
## 393
                                     Gustafsson, Mr. Johan Birger
                                                                      male 28.0
                                                                                     2
## 396
                                               Johansson, Mr. Erik
                                                                      male 22.0
                                                                                     0
## 397
                                               Olsson, Miss. Elina female 31.0
                                                                                     0
## 398
                                           McKane, Mr. Peter David
                                                                      male 46.0
## 399
                                                  Pain, Dr. Alfred
                                                                      male 23.0
                                                                                     0
## 402
                                                   Adams, Mr. John
                                                                      male 26.0
                                                                                     0
## 403
                                          Jussila, Miss. Mari Aina female 21.0
## 404
                                   Hakkarainen, Mr. Pekka Pietari
                                                                      male 28.0
## 405
                                           Oreskovic, Miss. Marija female 20.0
## 406
                                                Gale, Mr. Shadrach
                                                                      male 34.0
## 407
                                 Widegren, Mr. Carl/Charles Peter
                                                                      male 51.0
                                Birkeland, Mr. Hans Martin Monsen
## 409
                                                                      male 21.0
                                                                                     0
## 410
                                                Lefebre, Miss. Ida female
                                                                                     3
## 411
                                                Sdycoff, Mr. Todor
                                                                      male
                                                                             NΑ
                                                                                     0
## 412
                                                   Hart, Mr. Henry
                                                                      male
                                                                             NA
## 414
                                   Cunningham, Mr. Alfred Fleming
                                                                      male
                                                                             NA
                                                                                     0
## 416
                          Meek, Mrs. Thomas (Annie Louise Rowley) female
## 419
                                       Matthews, Mr. William John
                                                                      male 30.0
## 420
                                         Van Impe, Miss. Catharina female 10.0
## 421
                                            Gheorgheff, Mr. Stanio
                                                                      male
                                                                                     0
                                               Charters, Mr. David
## 422
                                                                      male 21.0
                                                                                     0
## 423
                                                                      male 29.0
                                                Zimmerman, Mr. Leo
## 424
          Danbom, Mrs. Ernst Gilbert (Anna Sigrid Maria Brogren) female 28.0
## 425
                                      Rosblom, Mr. Viktor Richard
                                                                      male 18.0
## 426
                                            Wiseman, Mr. Phillippe
                                                                      male
                                                                             NΑ
                                                                                     0
## 429
                                                  Flynn, Mr. James
                                                                      male
                                                                             NA
                                                                                     0
## 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
## 440
                           Kvillner, Mr. Johan Henrik Johannesson
                                                                      male 31.0
                                                                                     0
## 442
                                                   Hampe, Mr. Leon
                                                                      male 20.0
## 443
                                                                      male 25.0
                                        Petterson, Mr. Johan Emil
## 451
                                             West, Mr. Edwy Arthur
                                                                      male 36.0
## 452
                                  Hagland, Mr. Ingvald Olai Olsen
                                                                      male
                                                                             NA
                                                                                     1
## 453
                                  Foreman, Mr. Benjamin Laventall
                                                                      male 30.0
                                                                                     0
## 455
                                               Peduzzi, Mr. Joseph
                                                                      male
                                                                                     0
                                                                             NA
## 457
                                         Millet, Mr. Francis Davis
                                                                      male 65.0
## 460
                                             O'Connor, Mr. Maurice
                                                                      male
                                                                             NA
                                                                                     0
## 462
                                               Morley, Mr. William
                                                                      male 34.0
                                                                                     0
## 463
                                                 Gee, Mr. Arthur H
                                                                      male 47.0
                                     Milling, Mr. Jacob Christian
## 464
                                                                      male 48.0
                                                                                     0
## 465
                                                Maisner, Mr. Simon
                                                                      male
                                                                             NA
                                                                                     0
## 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
```

```
## 471
                                                 Keefe, Mr. Arthur
                                                                      male
## 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
## 479
                                        Karlsson, Mr. Nils August
                                                                      male 22.0
## 481
                                   Goodwin, Master. Harold Victor
                                                                      male 9.0
## 482
                                 Frost, Mr. Anthony Wood "Archie"
                                                                      male
                                                                             NA
                                                                                     Λ
## 483
                                         Rouse, Mr. Richard Henry
                                                                      male 50.0
                                                                                     0
## 486
                                            Lefebre, Miss. Jeannie female
                                                                             NA
                                                                                     3
## 488
                                           Kent, Mr. Edward Austin
                                                                      male 58.0
                                                                                     0
## 489
                                    Somerton, Mr. Francis William
                                                                      male 30.0
                                                                                     0
                             Hagland, Mr. Konrad Mathias Reiersen
## 491
                                                                      male
                                                                             NA
## 492
                                               Windelov, Mr. Einar
                                                                      male 21.0
## 493
                                       Molson, Mr. Harry Markland
                                                                      male 55.0
## 494
                                           Artagaveytia, Mr. Ramon
                                                                      male 71.0
                                                                                     0
## 495
                                       Stanley, Mr. Edward Roland
                                                                      male 21.0
## 496
                                             Yousseff, Mr. Gerious
                                                                      male
                                                                             NΑ
                                                                                     0
## 498
                                  Shellard, Mr. Frederick William
                                                                      male
                                                                             NA
## 499
                 Allison, Mrs. Hudson J C (Bessie Waldo Daniels) female 25.0
## 500
                                                Svensson, Mr. Olof
                                                                      male 24.0
## 501
                                                  Calic, Mr. Petar
                                                                      male 17.0
                                               Canavan, Miss. Mary female 21.0
## 502
## 503
                                   O'Sullivan, Miss. Bridget Mary female
## 504
                                   Laitinen, Miss. Kristina Sofia female 37.0
## 506
                      Penasco y Castellana, Mr. Victor de Satode
                                                                      male 18.0
                                                                                     1
## 509
                                          Olsen, Mr. Henry Margido
                                                                      male 28.0
                                                                                     0
## 512
                                                                      male
                                                 Webber, Mr. James
                                                                             NA
## 515
                                                 Coleff, Mr. Satio
                                                                      male 24.0
## 516
                                     Walker, Mr. William Anderson
                                                                      male 47.0
                                                                                     0
## 518
                                                 Ryan, Mr. Patrick
                                                                      male
                                                                             NA
                                                                                     0
## 520
                                               Pavlovic, Mr. Stefo
                                                                      male 32.0
## 522
                                                   Vovk, Mr. Janko
                                                                      male 22.0
                                                                                     0
## 523
                                                Lahoud, Mr. Sarkis
                                                                      male
                                                                             NA
                                                                                     0
## 525
                                                 Kassem, Mr. Fared
                                                                      male
                                                                             NΑ
                                                                                     0
## 526
                                                Farrell, Mr. James
                                                                      male 40.5
## 528
                                                Farthing, Mr. John
                                                                      male
                                                                             NΑ
                                                                                     0
## 529
                                        Salonen, Mr. Johan Werner
                                                                      male 39.0
## 530
                                      Hocking, Mr. Richard George
                                                                      male 23.0
## 532
                                                 Toufik, Mr. Nakli
                                                                      male
## 533
                                              Elias, Mr. Joseph Jr
                                                                      male 17.0
                                                                                     1
## 535
                                               Cacic, Miss. Marija female 30.0
                                                                                     0
## 537
                                Butt, Major. Archibald Willingham
                                                                      male 45.0
                                                                                     0
## 539
                                          Risien, Mr. Samuel Beard
                                                                      male
                                                                             NA
## 542
                             Andersson, Miss. Ingeborg Constanzia female 9.0
## 543
                                Andersson, Miss. Sigrid Elisabeth female 11.0
                                                                                     4
## 545
                                        Douglas, Mr. Walter Donald
                                                                      male 50.0
## 546
                                     Nicholson, Mr. Arthur Ernest
                                                                      male 64.0
                                                                                     0
                                        Goldsmith, Mr. Frank John
## 549
                                                                      male 33.0
## 552
                                      Sharp, Mr. Percival James R
                                                                      male 27.0
                                                                                     0
## 553
                                              O'Brien, Mr. Timothy
                                                                      male
## 556
                                                Wright, Mr. George
                                                                      male 62.0
                                                                                     0
## 558
                                               Robbins, Mr. Victor
                                                                      male
```

```
## 561
                                          Morrow, Mr. Thomas Rowan
                                                                      male
## 562
                                                 Sivic, Mr. Husein
                                                                      male 40.0
                                                                                     0
## 563
                                        Norman, Mr. Robert Douglas
                                                                      male 28.0
## 564
                                                 Simmons, Mr. John
                                                                                     0
                                                                      male
                                                                             NA
## 565
                                   Meanwell, Miss. (Marion Ogden) female
                                                                             NA
                                                                                     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
                                                                                     0
## 575
                                     Rush, Mr. Alfred George John
                                                                      male 16.0
                                                                                     0
## 576
                                              Patchett, Mr. George
                                                                      male 19.0
## 579
                                 Caram, Mrs. Joseph (Maria Elias) female
                                                                             ΝA
                                                                                     1
## 583
                                        Downton, Mr. William James
                                                                      male 54.0
                                                                                     0
## 584
                                               Ross, Mr. John Hugo
                                                                      male 36.0
## 585
                                               Paulner, Mr. Uscher
                                                                      male
                                                                             NA
                                                                                     0
## 587
                                           Jarvis, Mr. John Denzil
                                                                      male 47.0
## 589
                                             Gilinski, Mr. Eliezer
                                                                      male 22.0
                                                                                     0
## 590
                                               Murdlin, Mr. Joseph
                                                                      male
## 591
                                              Rintamaki, Mr. Matti
                                                                      male 35.0
                                                                                     0
## 593
                                        Elsbury, Mr. William James
                                                                      male 47.0
## 594
                                                Bourke, Miss. Mary female
                                                                             NA
                                                                                     Λ
## 595
                                           Chapman, Mr. John Henry
                                                                      male 37.0
## 596
                                      Van Impe, Mr. Jean Baptiste
                                                                      male 36.0
                                                                                     1
## 598
                                               Johnson, Mr. Alfred
                                                                      male 49.0
## 599
                                                 Boulos, Mr. Hanna
                                                                      male
                                                                                     0
## 602
                                              Slabenoff, Mr. Petco
                                                                      male
                                                                             NA
                                                                                     0
## 603
                                         Harrington, Mr. Charles H
                                                                             NA
                                                                                     0
                                                                      male
## 604
                                         Torber, Mr. Ernst William
                                                                      male 44.0
                                                                                     0
## 606
                                    Lindell, Mr. Edvard Bengtsson
                                                                      male 36.0
## 607
                                                 Karaic, Mr. Milan
                                                                      male 30.0
## 611 Andersson, Mrs. Anders Johan (Alfrida Konstantia Brogren) female 39.0
## 612
                                             Jardin, Mr. Jose Neto
                                                                      male
                                                                             NΑ
                                                                                     0
## 614
                                                  Horgan, Mr. John
                                                                      male
                                                                             NA
## 615
                                                                      male 35.0
                                  Brocklebank, Mr. William Alfred
                                                                                     0
## 617
                                         Danbom, Mr. Ernst Gilbert
                                                                      male 34.0
## 618
                 Lobb, Mrs. William Arthur (Cordelia K Stanlick) female 26.0
## 620
                                               Gavey, Mr. Lawrence
                                                                      male 26.0
## 621
                                               Yasbeck, Mr. Antoni
                                                                      male 27.0
## 624
                                      Hansen, Mr. Henry Damsgaard
                                                                      male 21.0
## 625
                                      Bowen, Mr. David John "Dai"
                                                                      male 21.0
                                                                                     0
## 626
                                             Sutton, Mr. Frederick
                                                                      male 61.0
## 627
                                   Kirkland, Rev. Charles Leonard
                                                                      male 57.0
                                                                                     0
## 629
                                         Bostandyeff, Mr. Guentcho
                                                                      male 26.0
                                                                                     0
## 630
                                          O'Connell, Mr. Patrick D
                                                                      male
                                                                                     0
                                                                             NA
## 632
                                      Lundahl, Mr. Johan Svensson
                                                                      male 51.0
## 634
                                    Parr, Mr. William Henry Marsh
                                                                      male
                                                                             NA
                                                                                     0
## 635
                                                Skoog, Miss. Mabel female 9.0
                                                                                     3
## 637
                                        Leinonen, Mr. Antti Gustaf
                                                                      male 32.0
## 638
                                               Collyer, Mr. Harvey
                                                                      male 31.0
                                                                                     1
## 639
                           Panula, Mrs. Juha (Maria Emilia Ojala) female 41.0
                                                                                     0
## 640
                                        Thorneycroft, Mr. Percival
                                                                             NA
                                                                      male
                                                                                     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
```

```
## 649
                                                Willey, Mr. Edward
                                                                      male
## 651
                                                 Mitkoff, Mr. Mito
                                                                      male
                                                                             NΑ
                                                                                     0
                                   Kalvik, Mr. Johannes Halvorsen
                                                                      male 21.0
## 653
## 655
                                     Hegarty, Miss. Hanora "Nora" female 18.0
                                                                                     0
## 656
                                         Hickman, Mr. Leonard Mark
                                                                      male 24.0
                                                                                     2
## 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
                                                                                     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
## 668
                                       Rommetvedt, Mr. Knud Paust
                                                                      male
                                                                                     0
                                                                             NΑ
## 669
                                                   Cook, Mr. Jacob
                                                                      male 43.0
                                                                                     0
## 672
                                            Davidson, Mr. Thornton
                                                                      male 31.0
                                                                                     1
## 673
                                      Mitchell, Mr. Henry Michael
                                                                      male 70.0
## 675
                                        Watson, Mr. Ennis Hastings
                                                                      male
                                                                             NA
                                                                                     0
## 676
                                   Edvardsson, Mr. Gustaf Hjalmar
                                                                      male 18.0
                                                                                     0
## 677
                                    Sawyer, Mr. Frederick Charles
                                                                      male 24.5
                                                                                     Λ
## 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
                                                                                     1
## 686
                           Laroche, Mr. Joseph Philippe Lemercier
                                                                      male 25.0
                                                                                     1
## 687
                                          Panula, Mr. Jaako Arnold
                                                                      male 14.0
                                                                                     4
## 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
                                                                                     0
## 696
                                        Chapman, Mr. Charles Henry
                                                                      male 52.0
                                                                      male 44.0
## 697
                                                  Kelly, Mr. James
                                                                                     0
## 699
                                          Thaver, Mr. John Borland
                                                                      male 49.0
## 700
                         Humblen, Mr. Adolf Mathias Nicolai Olsen
                                                                      male 42.0
                                                                                     0
## 703
                                             Barbara, Miss. Saiide female 18.0
## 704
                                             Gallagher, Mr. Martin
                                                                      male 25.0
                                                                                     0
## 705
                                           Hansen, Mr. Henrik Juul
                                                                      male 26.0
## 706
                  Morley, Mr. Henry Samuel ("Mr Henry Marshall")
                                                                      male 39.0
                                                                                     0
## 712
                                                Klaber, Mr. Herman
                                                                      male
                                                                             NA
                                                                      male 29.0
## 714
                                        Larsson, Mr. August Viktor
                                                                                     0
## 715
                                             Greenberg, Mr. Samuel
                                                                      male 52.0
                                                                                     0
## 716
                      Soholt, Mr. Peter Andreas Lauritz Andersen
                                                                      male 19.0
                                                                                     0
## 719
                                               McEvoy, Mr. Michael
                                                                      male
                                                                             NA
## 720
                                      Johnson, Mr. Malkolm Joackim
                                                                      male 33.0
                                                                                     0
## 722
                                         Jensen, Mr. Svend Lauritz
                                                                      male 17.0
                                                                                     1
## 723
                                     Gillespie, Mr. William Henry
                                                                      male 34.0
## 724
                                           Hodges, Mr. Henry Price
                                                                      male 50.0
                                                                                     0
## 726
                                               Oreskovic, Mr. Luka
                                                                      male 20.0
                                                                                     0
## 729
                                  Bryhl, Mr. Kurt Arnold Gottfrid
                                                                      male 25.0
                                                                                     1
## 730
                                    Ilmakangas, Miss. Pieta Sofia female 25.0
## 732
                                         Hassan, Mr. Houssein G N
                                                                      male 11.0
                                                                                     0
## 733
                                              Knight, Mr. Robert J
                                                                      male
```

```
## 734
                                        Berriman, Mr. William John
                                                                      male 23.0
                                      Troupiansky, Mr. Moses Aaron
## 735
                                                                      male 23.0
                                                                                     0
## 736
                                                                      male 28.5
                                              Williams, Mr. Leslie
## 737
                          Ford, Mrs. Edward (Margaret Ann Watson) female 48.0
                                                                                     1
## 739
                                                Ivanoff, Mr. Kanio
                                                                      male
                                                                              NΑ
## 740
                                                Nankoff, Mr. Minko
                                                                      male
                                                                              NΑ
                                                                                     0
## 742
                                     Cavendish, Mr. Tyrell William
                                                                      male 36.0
## 744
                                                                      male 24.0
                                                 McNamee, Mr. Neal
                                                                                     1
## 746
                                      Crosby, Capt. Edward Gifford
                                                                      male 70.0
                                                                                     1
## 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
                                          Bailey, Mr. Percy Andrew
                                                                      male 18.0
                                                                                     0
## 759
                                      Theobald, Mr. Thomas Leonard
                                                                      male 34.0
                                                                                     0
## 761
                                                Garfirth, Mr. John
                                                                      male
                                                                                     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
                                                                                     Λ
## 768
                                                Mangan, Miss. Mary female 30.5
## 769
                                               Moran, Mr. Daniel J
                                                                      male
                                                                              NΑ
                                                                                     1
## 770
                                 Gronnestad, Mr. Daniel Danielsen
                                                                      male 32.0
## 771
                                            Lievens, Mr. Rene Aime
                                                                      male 24.0
                                                                                     0
## 772
                                           Jensen, Mr. Niels Peder
                                                                      male 48.0
                                                                                     0
## 773
                                                 Mack, Mrs. (Mary) female 57.0
                                                                                     0
## 774
                                                   Elias, Mr. Dibo
                                                                      male
                                                                              NA
                                                                                     0
## 776
                          Myhrman, Mr. Pehr Fabian Oliver Malkolm
                                                                      male 18.0
                                                                                     0
## 777
                                                  Tobin, Mr. Roger
                                                                      male
                                                                                     0
                                                                              NA
## 779
                                           Kilgannon, Mr. Thomas J
                                                                      male
                                                                              NA
                                                                                     0
## 783
                                            Long, Mr. Milton Clyde
                                                                      male 29.0
                                                                                     0
## 784
                                            Johnston, Mr. Andrew G
                                                                      male
                                                                              NA
## 785
                                                  Ali, Mr. William
                                                                      male 25.0
                                                                                     0
## 786
                               Harmer, Mr. Abraham (David Lishin)
                                                                      male 25.0
                                                                                     0
## 788
                                         Rice, Master. George Hugh
                                                                      male 8.0
                                                                                     4
## 790
                                          Guggenheim, Mr. Benjamin
                                                                      male 46.0
## 791
                                          Keane, Mr. Andrew "Andy"
                                                                      male
                                                                                     0
                                                                              NΑ
## 792
                                               Gaskell, Mr. Alfred
                                                                      male 16.0
## 793
                                           Sage, Miss. Stella Anna female
                                                                                     8
                                                                              NΑ
## 794
                                          Hoyt, Mr. William Fisher
                                                                      male
## 795
                                             Dantcheff, Mr. Ristiu
                                                                      male 25.0
                                                                                     0
                                                Otter, Mr. Richard
                                                                      male 39.0
## 796
                                                                                     0
## 799
                                      Ibrahim Shawah, Mr. Yousseff
                                                                      male 30.0
                                                                                     0
## 800
            Van Impe, Mrs. Jean Baptiste (Rosalie Paula Govaert) female 30.0
                                                                                     1
## 801
                                              Ponesell, Mr. Martin
                                                                      male 34.0
                                                                                     0
## 806
                                         Johansson, Mr. Karl Johan
                                                                      male 31.0
                                                                                     0
## 807
                                                                      male 39.0
                                            Andrews, Mr. Thomas Jr
                                                                                     0
## 808
                                  Pettersson, Miss. Ellen Natalia female 18.0
                                                                                     0
## 809
                                                 Meyer, Mr. August
                                                                      male 39.0
                                                                                     0
## 811
                                            Alexander, Mr. William
                                                                      male 26.0
                                                                                     0
## 812
                                                 Lester, Mr. James
                                                                      male 39.0
                                                                                     0
## 813
                                         Slemen, Mr. Richard James
                                                                      male 35.0
                                                                                     0
## 814
                               Andersson, Miss. Ebba Iris Alfrida female 6.0
```

```
## 815
                                        Tomlin, Mr. Ernest Portage
                                                                       male 30.5
                                                  Fry, Mr. Richard
## 816
                                                                       male
                                                                                     0
                                                                              NA
## 817
                                      Heininen, Miss. Wendla Maria female 23.0
## 818
                                                Mallet, Mr. Albert
                                                                       male 31.0
                                                                                      1
## 819
                                 Holm, Mr. John Fredrik Alexander
                                                                       male 43.0
## 820
                                      Skoog, Master. Karl Thorsten
                                                                       male 10.0
                                                                                     3
## 823
                                  Reuchlin, Jonkheer. John George
                                                                       male 38.0
## 825
                                      Panula, Master. Urho Abraham
                                                                       male
                                                                             2.0
## 826
                                                   Flynn, Mr. John
                                                                       male
                                                                              NA
                                                                                     0
## 827
                                                       Lam, Mr. Len
                                                                       male
                                                                              NA
                                                                                     0
## 833
                                                    Saad, Mr. Amin
                                                                       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
## 838
                                               Sirota, Mr. Maurice
                                                                       male
                                                                                     0
                                                                              NΑ
## 841
                                       Alhomaki, Mr. Ilmari Rudolf
                                                                       male 20.0
                                                                                     0
## 842
                                          Mudd, Mr. Thomas Charles
                                                                       male 16.0
                                                                                     0
## 844
                                        Lemberopolous, Mr. Peter L
                                                                       male 34.5
## 845
                                                                       male 17.0
                                               Culumovic, Mr. Jeso
                                                                                     0
## 846
                                               Abbing, Mr. Anthony
                                                                       male 42.0
                                                                                     0
## 847
                                          Sage, Mr. Douglas Bullen
                                                                       male
                                                                              NΑ
                                                                                     8
## 848
                                                Markoff, Mr. Marin
                                                                       male 35.0
                                                 Harper, Rev. John
## 849
                                                                       male 28.0
                                                                                     0
## 851
                          Andersson, Master. Sigvard Harald Elias
                                                                       male 4.0
## 852
                                               Svensson, Mr. Johan
                                                                       male 74.0
## 853
                                           Boulos, Miss. Nourelain female 9.0
                                                                                      1
## 855
                    Carter, Mrs. Ernest Courtenay (Lilian Hughes) female 44.0
                                                                                      1
## 860
                                                  Razi, Mr. Raihed
                                                                       male
                                                                              NA
                                                                                     0
                                                                                      2
## 861
                                           Hansen, Mr. Claus Peter
                                                                       male 41.0
## 862
                                       Giles, Mr. Frederick Edward
                                                                       male 21.0
                                                                                      1
## 864
                                 Sage, Miss. Dorothy Edith "Dolly" female
                                                                                     8
## 865
                                            Gill, Mr. John William
                                                                       male 24.0
                                                                                     0
## 868
                             Roebling, Mr. Washington Augustus II
                                                                       male 31.0
                                                                                     0
## 869
                                       van Melkebeke, Mr. Philemon
                                                                       male
                                                                              NA
                                                                                     0
                                                                       male 26.0
## 871
                                                 Balkic, Mr. Cerin
                                                                                     0
## 873
                                          Carlsson, Mr. Frans Olof
                                                                       male 33.0
                                                                                     0
## 874
                                       Vander Cruyssen, Mr. Victor
                                                                       male 47.0
## 877
                                     Gustafsson, Mr. Alfred Ossian
                                                                       male 20.0
                                                                                     0
## 878
                                              Petroff, Mr. Nedelio
                                                                       male 19.0
## 879
                                                Laleff, Mr. Kristo
                                                                       male
                                                                                     0
                                                                              NA
## 882
                                                Markun, Mr. Johann
                                                                       male 33.0
## 883
                                      Dahlberg, Miss. Gerda Ulrika female 22.0
                                                                                     0
## 884
                                     Banfield, Mr. Frederick James
                                                                       male 28.0
                                                                                     0
## 885
                                            Sutehall, Mr. Henry Jr
                                                                       male 25.0
                                                                                     0
## 886
                             Rice, Mrs. William (Margaret Norton) female 39.0
                                             Montvila, Rev. Juozas
## 887
                                                                       male 27.0
                                                                                     0
## 889
                         Johnston, Miss. Catherine Helen "Carrie" female
                                                                              NA
                                                                                     1
## 891
                                               Dooley, Mr. Patrick
                                                                       male 32.0
##
       Parch
                          Ticket
                                      Fare
                                                 Cabin Embarked
## 1
           0
                       A/5 21171
                                    7.2500
## 5
           0
                          373450
                                    8.0500
                                                               S
## 6
           0
                                                               Q
                          330877
                                    8.4583
## 7
           0
                           17463
                                  51.8625
                                                   E46
                                                               S
## 8
           1
                          349909
                                  21.0750
                                                               S
```

		_	. /=				~
	13	0	A/5. 2151	8.0500			S
##	14	5	347082	31.2750			S
##	15	0	350406	7.8542			S
##	17	1	382652	29.1250			Q
##	19	0	345763	18.0000			S
##	21	0	239865	26.0000			S
##	25	1	349909	21.0750			S
##	27	0	2631	7.2250			C
##	28	2	19950	263.0000	C23 C25	C27	S
##	30	0	349216	7.8958			S
##	31	0	PC 17601	27.7208			C
##	34	0	C.A. 24579	10.5000			S
##	35	0	PC 17604	82.1708			C
##	36	0	113789	52.0000			S
##	38	0	A./5. 2152	8.0500			S
##	39	0	345764	18.0000			S
##	41	0	7546	9.4750			S
##	42	0	11668	21.0000			S
	43	0	349253	7.8958			С
##	46	0	S.C./A.4. 23567	8.0500			S
##	47	0	370371	15.5000			Q
##	49	0	2662	21.6792			Ċ
	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	0	2697	7.2292		200	C
##	60	2	CA 2144	46.9000			S
##	61	0	2669	7.2292			C
##	63	0	36973	83.4750		C83	S
##	64	2	347088	27.9000		000	S
##	65	0	PC 17605	27.7208			C
##	68	0	S.P. 3464	8.1583			S
##	70	0	315151	8.6625			S
##	71	0	C.A. 33111	10.5000			S
##	72	2	CA 2144	46.9000			S
	73	0	S.O.C. 14879	73.5000			S
	73 74		2680	14.4542			C
##		0			77	072	
##	76 77	0	348123	7.6500	r	G73	S S
##	77 70	0	349208	7.8958			
##	78 01	0	374746	8.0500			S
##	81	0	345767	9.0000			S
##	84	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		E04	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	D 00	C
	125	1	35281	77.2875	D26	S
	127	0	370372	7.7500		Q
	130	0	347061	6.9750		S
	131	0	349241	7.8958		C
	132	0	SOTON/O.Q. 3101307	7.0500		S
	133	0	A/5. 3337	14.5000		S
	135	0	C.A. 29178	13.0000		S
	136	0	SC/PARIS 2133	15.0458	G4.00	C
	138	0	113803	53.1000	C123	S
	139	0	7534	9.2167	DOC	S
	140	0	PC 17593	79.2000	B86	C
	141 144	2	2678	15.2458		C
	144	0	365222	6.7500		Q S
	146	0	231945 C.A. 33112	11.5000		s S
##	148	1 2	W./C. 6608	36.7500 34.3750		s S
	149	2	230080	26.0000	F2	S
	150	0	244310	13.0000	12	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	С
##	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
##	228 229	0	A/5 21173 236171	7.2500 13.0000		S S
	230	0	4133	25.4667		S
	232	_	347067	7.7750		
	233	0	237442	13.5000		S 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		C
	246	0	19928	90.0000	C78	Q
	247	0	347071	7.7750		S
##	250	0	244252	26.0000		S
##	251	0	362316	7.2500		S
##	252	1	347054	10.4625	G6	S
##	253	0	113514	26.5500	C87	S

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	254	0	A/5. 3336	16.1000		S
	255	2	370129	20.2125		S
	261	0	384461	7.7500		Q
	263	1	110413	79.6500	E67	S
##	264	0	112059	0.0000	B94	S
##	265	0	382649	7.7500		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		S
##	278	0	239853	0.0000		S
##	279	1	382652	29.1250		Q
	281	0	336439	7.7500		Q
	282	0	347464	7.8542		S
	283	0	345778	9.5000		S
	285	0	113056	26.0000	A19	S
	286	0	349239	8.6625	1110	C
	288	0	349206	7.8958		S
	293	0	SC/Paris 2163	12.8750	D	C
	294	0	349236	8.8500	D	S
	295		349233	7.8958		S
		0				
	296	0	PC 17612	27.7208		C
	297	0	2693	7.2292	goo gog	C
	298	2		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
##	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		С
	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
		-	01,000			5

	362	0	·	27.7208		C
	363	1	2691	14.4542		C
	364	0	• •	7.0500		S
	365	0	370365	15.5000		Q
	366	0	C 7076	7.2500		S
	372	0	3101267	6.4958		S
	373	0	323951	8.0500		S
	374	0	PC 17760			C
	375	1	349909	21.0750	~~~	S
	378	2		211.5000	C82	C
	379	0	2648	4.0125		C
	380	0	347069	7.7750		S
	383	0	STON/O 2. 3101293	7.9250		S
	385	0	349227	7.8958		S
	386	0	S.O.C. 14879	73.5000		S
	387	2	CA 2144	46.9000		S
	389	0	367655	7.7292		Q
	393	0	3101277	7.9250		S
	396	0	350052	7.7958		S
	397	0	350407	7.8542		S
	398	0	28403	26.0000		S
	399	0	244278	10.5000		S
	402	0	341826	8.0500		S
	403	0	4137	9.8250		S
	404	0	STON/02. 3101279	15.8500		S
	405	0	315096	8.6625		S
	406	0	28664	21.0000		S
	407	0	347064	7.7500		S
	409	0	312992	7.7750		S
	410	1	4133	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			S
	424	1	347080			S
	425	1	370129			S
	426	0	A/4. 34244			S
	429	0	364851	7.7500		Q
	434	0			D44	S
	435	0		55.9000	E44	S
	437	2	W./C. 6608		goo got god	S
	439	4			C23 C25 C27	S
	440	0	C.A. 18723	10.5000		S
	442	0	345769			S
	443	0	347076			S
	451	2	C.A. 34651			S
	452	0	65303		0111	S
	453	0	113051		C111	C
##	455	0	A/5 2817	8.0500		S

##	457	0	13509	26.5500	E38	S
##	460	0	371060	7.7500		Q
##	462	0	364506	8.0500		S
##	463	0	111320	38.5000	E63	S
##	464	0	234360	13.0000		S
##	465	0	A/S 2816	8.0500		S
##	466	0	SOTON/O.Q. 3101306	7.0500		S
##	467	0	239853	0.0000		S
##	468	0	113792	26.5500		S
##	469	0	36209	7.7250		Q
	471	0	323592	7.2500		S
##	472	0	315089	8.6625		S
##	475	0	7553	9.8375		S
	476	0	110465	52.0000	A14	S
	477	0	31027	21.0000		S
	478	0	3460	7.0458		S
	479	0	350060	7.5208		S
	481	2	CA 2144	46.9000		S
	482	0	239854	0.0000		S
	483	0	A/5 3594	8.0500		S
	486	1	4133	25.4667		S
	488	0	11771	29.7000	B37	C
	489	0	A.5. 18509	8.0500	DOT	S
	491	0	65304	19.9667		S
	492	0	SOTON/OQ 3101317	7.2500		S
	493	0	113787	30.5000	C30	S
	494	0	PC 17609	49.5042	030	C
	495	0	A/4 45380	8.0500		S
	496	0	2627	14.4583		C
	498	0	C.A. 6212	15.1000		S
	499	2		151.5500	C22 C26	S
	500	0	350035	7.7958	022 020	S
	501	0	315086	8.6625		S
	502		364846	7.7500		
	503	0		7.6292		Q
##	503	0	330909 4135	9.5875		Q S
	504	0	PC 17758		C65	C
	509	0	C 4001	22.5250	005	S
	512	0	SOTON/OQ 3101316	8.0500		S
			349209			S
	515	0		7.4958	D46	S S
	516	0	36967	34.0208	D46	
	518	0	371110	24.1500		Q
	520	0	349242 349252	7.8958		S
	522	0		7.8958		S C
	523	0	2624	7.2250		
	525	0	2700	7.2292		C
	526	0	367232	7.7500	COE	Q
	528	0	PC 17483		C95	S
	529	0	3101296	7.9250		S
	530	1	29104	11.5000		S
	532	0	2641	7.2292		C
	533	1	2690	7.2292		C
	535	0	315084	8.6625	500	S
##	537	0	113050	26.5500	B38	S

##	539	0	364498	14.5000		ď
	542	2	347082	31.2750		S S
	543	2	347082	31.2750	aoc	S
	545	0	PC 17761		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			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
##	612	0	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		C
##	624	0	350029	7.8542		S
##	625	0	54636	16.1000		S
##	626	0	36963	32.3208	D50	S
	627	0	219533	12.3500		Q
##	629	0	349224	7.8958		s
##	630	0	334912	7.7333		Q
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	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	C
	662	0	2623	7.2250		C
##	663	0	5727	25.5875	E58	S
##	664	0	349210	7.4958		S
##	666	0	S.O.C. 14879	73.5000		S
##	667	0	234686	13.0000		S
##	668	0	312993	7.7750		S
##	669	0	A/5 3536	8.0500		S
##	672	0	F.C. 12750	52.0000	B71	S
##	673	0	C.A. 24580	10.5000		S
##	675	0	239856	0.0000		S
##	676	0	349912	7.7750		S
##	677	0	342826	8.0500		S
##	679	6	CA 2144	46.9000		S
##	681	0	330935	8.1375		Q
##	683	0	6563	9.2250		S
##	684	2	CA 2144	46.9000		S
##	685	1	29750	39.0000		S
##	686	2	SC/Paris 2123	41.5792		C
##	687	1	3101295	39.6875		S
##	688	0	349228	10.1708		S
##	689	0	350036	7.7958		S
##	694	0	2672	7.2250		C
##	695	0	113800	26.5500		S
##	696	0	248731	13.5000		S
##	697	0	363592	8.0500		S
##	699	1	17421	110.8833	C68	C
##	700	0	348121	7.6500	F G63	S
##	703	1	2691	14.4542		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		S
##	715	0	250647	13.0000		S
##	716	0	348124	7.6500	F G73	S

##	719	0	36568	15.5000		Q
	720	0	347062	7.7750		ŝ
##	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	046	S
	742	0	19877	78.8500	C46	S
	744 746	0	376566	16.1000 71.0000	DOO	S S
	747	1 1	WE/P 5735 C.A. 2673	20.2500	B22	s S
	749	0	113773	53.1000	D30	S
	750	0	335097	7.7500	D30	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		С
	776	0	347078	7.7500		S
	777	0	383121	7.7500	F38	Q
	779	0	36865	7.7375	D.C.	Q
	783	0	113501	30.0000	D6	S
	784	2	W./C. 6607	23.4500		S S
	785 786	0	SOTON/O.Q. 3101312	7.0500		s S
	786 788	0	374887 382652	7.2500 29.1250		S Q
	790	0	PC 17593	79.2000	B82 B84	C
	791	0	12460	7.7500	DOZ DO 4	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		С

##	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		1100	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		D102	S
	818	1	S.C./PARIS 2079	37.0042			C
	819						S
	820	0	C 7075	6.4500			S
		2	347088	27.9000			s S
	823	0	19972 3101295	0.0000			
	825	1		39.6875			S
	826	0	368323	6.9500			Q
	827	0	1601	56.4958			S
	833	0	2671	7.2292			C
	834	0	347468	7.8542			S
	835	0	2223	8.3000			S
	837	0	315097	8.6625			S
	838	0	392092	8.0500			S
	841	0	SOTON/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			C
	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	0	233866	13.0000			S
	868	0	PC 17590	50.4958		A24	S
	869	0	345777	9.5000			S
	871	0	349248	7.8958			S
	873	0	695		B51 B53	B55	S
	874	0	345765	9.0000			S
	877	0	7534	9.8458			S
	878	0	349212	7.8958			S
	879	0	349217	7.8958			S
	882	0	349257	7.8958			S
	883	0	7552	10.5167			S
	884	0	C.A./SOTON 34068	10.5000			S
##	885	0	SOTON/OQ 392076	7.0500			S

```
## 886
            5
                           382652
                                    29.1250
                                                                  Q
            0
                                                                 S
## 887
                           211536
                                    13.0000
## 889
            2
                       W./C. 6607
                                    23.4500
                                                                 S
                                                                  Q
## 891
            0
                           370376
                                     7.7500
head(Survived)
##
      PassengerId Survived Pclass
## 2
                 2
                           1
                                   1
## 3
                 3
                                   3
                           1
##
  4
                 4
                           1
                                   1
                 9
## 9
                           1
                                   3
                10
                                   2
## 10
                           1
## 11
                11
                           1
                                   3
##
                                                                   Sex Age SibSp Parch
                                                          Name
      Cumings, Mrs. John Bradley (Florence Briggs Thayer) female
                                                                        38
## 2
                                                                                1
                                                                                0
##
  3
                                                                        26
                                                                                      0
                                      Heikkinen, Miss. Laina female
##
  4
              Futrelle, Mrs. Jacques Heath (Lily May Peel) female
                                                                                      0
                                                                                1
                                                                                      2
## 9
        Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg) female
                                                                        27
                                                                                0
## 10
                        Nasser, Mrs. Nicholas (Adele Achem) female
                                                                        14
                                                                                1
                                                                                      0
##
                            Sandstrom, Miss. Marguerite Rut female
                                                                                      1
  11
                                                                                1
##
                 Ticket
                            Fare Cabin Embarked
                                    C85
## 2
               PC 17599 71.2833
                                                C
##
   3
      STON/02. 3101282 7.9250
                                                S
## 4
                 113803 53.1000
                                   C123
                                                S
## 9
                 347742 11.1333
                                                S
                                                С
## 10
                 237736 30.0708
## 11
                PP 9549 16.7000
                                     G6
                                                S
head (Dead)
      PassengerId Survived Pclass
##
                                                                  Name
                                                                        Sex Age SibSp
## 1
                 1
                           0
                                   3
                                             Braund, Mr. Owen Harris male
                                                                             22
                                                                                     1
## 5
                 5
                           0
                                   3
                                            Allen, Mr. William Henry male
                                                                                     0
                                                                             35
                 6
                           0
                                   3
## 6
                                                    Moran, Mr. James male
                                                                             NA
                                                                                     0
## 7
                 7
                           0
                                             McCarthy, Mr. Timothy J male
                                                                             54
                                                                                     0
                                   1
## 8
                 8
                           0
                                   3 Palsson, Master. Gosta Leonard male
                                                                               2
                                                                                     3
                           0
## 13
                13
                                   3
                                     Saundercock, Mr. William Henry male
                                                                                     0
                           Fare Cabin Embarked
##
      Parch
                Ticket
## 1
            A/5 21171
                         7.2500
                                               S
           0
## 5
                373450
                         8.0500
                                               S
           0
##
   6
           0
                330877
                         8.4583
                                               Q
##
  7
                                               S
           0
                 17463 51.8625
                                   E46
                                               S
## 8
           1
                349909 21.0750
## 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

chronologihttps://drive.google.com/file/d/16MFLoehCgx2MJuNSAuB2CsBy6eDIIr- u/view?usp=drive_link)

Note Kindly click on the word BreastCancer to download the dataset. a. describe what is the dataset all about.

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)

BreastCancerFile <- read.csv("breastcancer_wisconsin.csv")
BreastCancerFile</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
##		1017122	8	10	10	8
##		1018099	1	1	1	1
##		1018561	2	1	2	1
##		1033078	2	1	1	1
##		1033078	4	2	1	1
##		1035283	1	1	1	1
##		1036172	2	1	1	1
##		1041801	5	3	3	3
	14	1043999	1	1	1	1
##		1044572	8	7	5	10
	16	1047630 1048672	7	4	6	4
##		1040672	4	1	1	1
##	18	1050670	4	1 7	1 7	1 6
##		1050070	6	1	1	1
##		1050718	7	3	2	10
##		1054593	10	5	5	3
##		1056784	3	1	1	1
##		1057013	8	4	5	1
##		1059552	1	1	1	1
##		1065726	5	2	3	4
##	27	1066373	3	2	1	1
##	28	1066979	5	1	1	1
##	29	1067444	2	1	1	1
##	30	1070935	1	1	3	1
##	31	1070935	3	1	1	1
##	32	1071760	2	1	1	1
##	33	1072179	10	7	7	3
##	34	1074610	2	1	1	2
##	35	1075123	3	1	2	1
##	36	1079304	2	1	1	1
##	37	1080185	10	10	10	8
##		1081791	6	2	1	1
##		1084584	5	4	4	9
##		1091262	2	5	3	3
##		1096800	6	6	6	9
##		1099510	10	4	3	1
##		1100524	6	10	10	2
##		1102573	5	6	5	6
##		1103608	10	10	10	4
##	46	1103722	1	1	1	1

##	47	1105257	3	7	7	4
##	48	1105524	1	1	1	1
##	49	1106095	4	1	1	3
##	50	1106829	7	8	7	2
##	51	1108370	9	5	8	1
##	52	1108449	5	3	3	4
##		1110102	10	3	6	2
	54	1110503	5	5	5	8
	55	1110524	10	5	5	6
##	56	1111249	10	6	6	3
##	57	1111249				
			8	10	10	1
##	58	1113038	8	2	4	1
##	59	1113483	5	2	3	1
##	60	1113906	9	5	5	2
##	61	1115282	5	3	5	5
##	62	1115293	1	1	1	1
##	63	1116116	9	10	10	1
##	64	1116132	6	3	4	1
##	65	1116192	1	1	1	1
##	66	1116998	10	4	2	1
##	67	1117152	4	1	1	1
##	68	1118039	5	3	4	1
##	69	1120559	8	3	8	3
##	70	1121732	1	1	1	1
##		1121919	5	1	3	1
##		1123061	6	10	2	8
##		1124651	1	3	3	2
##		1125035	9	4	5	10
##		1126417	10	6	4	1
##		1131294	1	1	2	
						1
##		1132347	1	1	4	1
##		1133041	5	3	1	2
##		1133136	3	1	1	1
##		1136142	2	1	1	1
##		1137156	2	2	2	1
	82	1143978	4	1	1	2
##		1143978	5	2	1	1
	84	1147044	3	1	1	1
##	85	1147699	3	5	7	8
##	86	1147748	5	10	6	1
##	87	1148278	3	3	6	4
##	88	1148873	3	6	6	6
##	89	1152331	4	1	1	1
##	90	1155546	2	1	1	2
##	91	1156272	1	1	1	1
##	92	1156948	3	1	1	2
##		1157734	4	1	1	1
##		1158247	1	1	1	1
##		1160476	2	1	1	1
##		1164066	1	1	1	1
##		1165297	2	1	1	2
##		1165790	5	1	1	1
##		1165926	9	6	9	2
	100	1166630	7	5	6	10
π#	100	1100000	1	5	J	10

				_	_	
	101	1166654	10	3	5	1
	102	1167439	2	3	4	4
##	103	1167471	4	1	2	1
##	104	1168359	8	2	3	1
##	105	1168736	10	10	10	10
##	106	1169049	7	3	4	4
	107	1170419	10	10	10	8
	108	1170420	1	6	8	10
	109	1171710	1	1	1	1
	110	1171710	6	5	4	4
		1171795				2
	111	1171795	1	3	1	
	112		8	6	4	3
	113	1172152	10	3	3	10
	114	1173216	10	10	10	3
	115	1173235	3	3	2	1
##	116	1173347	1	1	1	1
##	117	1173347	8	3	3	1
##	118	1173509	4	5	5	10
##	119	1173514	1	1	1	1
##	120	1173681	3	2	1	1
##	121	1174057	1	1	2	2
##	122	1174057	4	2	1	1
	123	1174131	10	10	10	2
	124	1174428	5	3	5	1
	125	1175937	5	4	6	7
	126	1176406	1	1	1	1
	127	1176881	7	5	3	7
	128	1177027	3	1	1	1
	129	1177399				4
			8	3	5	
	130	1177512	1	1	1	1
	131	1178580	5	1	3	1
	132	1179818	2	1	1	1
	133	1180194	5	10	8	10
	134	1180523	3	1	1	1
	135	1180831	3	1	1	1
##	136	1181356	5	1	1	1
##	137	1182404	4	1	1	1
##	138	1182410	3	1	1	1
##	139	1183240	4	1	2	1
##	140	1183246	1	1	1	1
##	141	1183516	3	1	1	1
##	142	1183911	2	1	1	1
	143	1183983	9	5	5	4
	144	1184184	1	1	1	1
	145	1184241	2	1	1	1
	146	1184840	1	1	3	1
	147	1185609	3	4	5	2
	148	1185610	1	1	1	1
	149	1187457	3	1	1	3
			8			
	150	1187805		8	7	4
	151	1188472	1	1	1	1
	152	1189266	7	2	4	1
	153	1189286	10	10	8	6
##	154	1190394	4	1	1	1

## 1	155	1190485	1	1	1	1
## 1		1192325	5	5	5	6
## 1		1193091	1	2	2	1
## 1		1193210	2	1	1	1
## 1		1193683	1	1	2	1
## 1		1196295	9	9	10	3
## 1	161	1196915	10	7	7	4
## 1	162	1197080	4	1	1	1
## 1	163	1197270	3	1	1	1
## 1	164	1197440	1	1	1	2
## 1	165	1197510	5	1	1	1
## 1	166	1197979	4	1	1	1
## 1	167	1197993	5	6	7	8
## 1	168	1198128	10	8	10	10
## 1	169	1198641	3	1	1	1
## 1	170	1199219	1	1	1	2
## 1	171	1199731	3	1	1	1
## 1	172	1199983	1	1	1	1
## 1		1200772	1	1	1	1
## 1		1200847	6	10	10	10
## 1		1200892	8	6	5	4
## 1		1200952	5	8	7	7
## 1		1201834	2	1	1	1
## 1		1201936	5	10	10	3
## 1		1202125	4	1	1	1
## 1		1202812	5	3	3	3
## 1		1203096	1	1	1	1
## 1		1204242	1	1	1	1
## 1		1204898	6	1	1	1
## 1		1205138	5	8	8	8
## 1		1205579	8	7	6	4
## 1		1206089	2	1	1	1
## 1		1206695	1	5	8	6
## 1		1206841	10	5	6	10
## 1		1207986 1208301	5	8	4 3	10
## 1 ## 1		1210963	1	2	10	1 8
		1210963	10	10		
## 1 ## 1	192	1211202	5	5	10	10 1
## 1		1212252	1	1	1	1
## 1		1212422	3	1	1	1
## 1		1212422	4	1	1	1
## 1		1213375	8	4	4	5
## 1		1213383	5	1	1	4
## 1		1214092	1	1	1	1
## 2		1214556	3	1	1	1
## 2		1214966	9	7	7	5
## 2		1216694	10	8	8	4
## 2		1216947	1	1	1	1
## 2		1217051	5	1	1	1
## 2		1217264	1	1	1	1
## 2		1218105	5	10	10	9
## 2	207	1218741	10	10	9	3
## 2	208	1218860	1	1	1	1

	209	1218860	1	1	1	1
	210	1219406	5	1	1	1
##	211	1219525	8	10	10	10
##	212	1219859	8	10	8	8
##	213	1220330	1	1	1	1
##	214	1221863	10	10	10	10
##	215	1222047	10	10	10	10
	216	1222936	8	7	8	7
	217	1223282	1	1	1	1
	218	1223426	1	1	1	1
	219	1223793	6	10	7	7
	220	1223967	6	1	3	1
	221	1224329	1	1	1	2
	222	1225799	10	6	4	3
	223	1226012	4	1	1	3
	224	1226612	7	5	6	3
	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
	232	1231387	6	8	7	5
	233	1231706	8	4	6	3
	234	1232225	10	4	5	5
	235	1236043	3	3	2	1
	236	1241232	3	1	4	1
	237	1241559	10	8	8	2
	238	1241679	9	8	8	5
##	239	1242364	8	10	10	8
##	240	1243256	10	4	3	2
##	241	1270479	5	1	3	3
##	242	1276091	3	1	1	3
##	243	1277018	2	1	1	1
##	244	128059	1	1	1	1
##	245	1285531	1	1	1	1
##	246	1287775	5	1	1	2
##	247	144888	8	10	10	8
##	248	145447	8	4	4	1
##	249	167528	4	1	1	1
##	250	169356	3	1	1	1
##	251	183913	1	2	2	1
##	252	191250	10	4	4	10
##	253	1017023	6	3	3	5
	254	1100524	6	10	10	2
	255	1116116	9	10	10	1
	256	1168736	5	6	6	2
	257	1182404	3	1	1	1
	258	1182404	3	1	1	1
	259	1198641	3	1	1	1
	260	242970	5	7	7	1
	261	255644	10	5	8	10
	262	263538	5	10	10	6
			O .	10	10	o .

		074407	•		•	
	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
	268	320675	3	3	5	2
	269	324427	10	8	8	2
##	270	385103	1	1	1	1
	271	390840	8	4	7	1
##	272	411453	5	1	1	1
##	273	320675	3	3	5	2
##	274	428903	7	2	4	1
##	275	431495	3	1	1	1
##	276	432809	3	1	3	1
##	277	434518	3	1	1	1
##	278	452264	1	1	1	1
##	279	456282	1	1	1	1
##	280	476903	10	5	7	3
##	281	486283	3	1	1	1
##	282	486662	2	1	1	2
##	283	488173	1	4	3	10
##	284	492268	10	4	6	1
##	285	508234	7	4	5	10
##	286	527363	8	10	10	10
##	287	529329	10	10	10	10
	288	535331	3	1	1	1
##	289	543558	6	1	3	1
	290	555977	5	6	6	8
	291	560680	1	1	1	1
	292	561477	1	1	1	1
	293	563649	8	8	8	1
	294	601265	10	4	4	6
	295	606140	1	1	1	1
	296	606722	5	5	7	8
	297	616240	5	3	4	3
	298	61634	5	4	3	1
	299	625201	8	2	1	1
	300	63375	9	1	2	6
	301	635844	8	4	10	5
	302	636130	1	1	1	1
	303	640744	10	10	10	7
	304	646904	1	1	1	1
	305	653777	8	3	4	9
	306	659642	10	8	4	4
	307	666090	1	1	1	1
	308	666942	1	1	1	1
	309	667204	7	8	7	6
	310	673637	3	1	1	1
	311	684955	2	1	1	1
	312	688033	1	1	1	1
	313	691628	8	6	4	10
	314	693702	1	1	1	10
	315	704097	1	1	1	1
	316		4	6	5	6
##	210	704168	4	6	5	6

						_
	317	706426	5	5	5	2
##	318	709287	6	8	7	8
##	319	718641	1	1	1	1
##	320	721482	4	4	4	4
##	321	730881	7	6	3	2
##	322	733639	3	1	1	1
	323	733639	3	1	1	1
	324	733823	5	4	6	10
	325	740492	1	1	1	1
	326	743348	3	2	2	1
	327	752904				
			10	1	1	1
	328	756136	1	1	1	1
	329	760001	8	10	3	2
	330	760239	10	4	6	4
	331	76389	10	4	7	2
	332	764974	5	1	1	1
##	333	770066	5	2	2	2
##	334	785208	5	4	6	6
##	335	785615	8	6	7	3
##	336	792744	1	1	1	1
##	337	797327	6	5	5	8
##	338	798429	1	1	1	1
##	339	704097	1	1	1	1
	340	806423	8	5	5	5
	341	809912	10	3	3	1
	342	810104	1	1	1	1
	343	814265	2	1	1	1
	344	814911	1	1	1	1
	345	822829	7			
				6	4	8
	346	826923	1	1	1	1
	347	830690	5	2	2	2
	348	831268	1	1	1	1
	349	832226	3	4	4	10
	350	832567	4	2	3	5
	351	836433	5	1	1	3
	352	837082	2	1	1	1
	353	846832	3	4	5	3
##	354	850831	2	7	10	10
##	355	855524	1	1	1	1
##	356	857774	4	1	1	1
##	357	859164	5	3	3	1
##	358	859350	8	10	10	7
##	359	866325	8	10	5	3
	360	873549	10	3	5	4
	361	877291	6	10	10	10
	362	877943	3	10	3	10
	363	888169	3	2	2	1
	364	888523	4	4	4	2
	365	896404	2	1	1	1
	366		2			
		897172		1	1	1
	367	95719	6	10	10	10
	368	160296	5	8	8	10
	369	342245	1	1	3	1
##	370	428598	1	1	3	1

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	371	492561	4	3	2	1
	372	493452	1	1	3	1
	373	493452	4	1	2	1
	374	521441	5	1	1	2
	375	560680	3	1	2	1
	376	636437	1	1	1	1
	377	640712	1	1	1	1
	378	654244	1	1	1	1
	379	657753	3	1	1	4
	380	685977	5	3	4	1
	381	805448	1	1	1	1
	382	846423	10	6	3	6
	383	1002504	3	2	2	2
	384	1022257	2	1	1	1
	385	1026122	2	1	1	1
	386	1071084	3	3	2	2
	387	1080233	7	6	6	3
	388	1114570	5	3	3	2
	389	1114570	2	1	1	1
##	390	1116715	5	1	1	1
##	391	1131411	1	1	1	2
##	392	1151734	10	8	7	4
##	393	1156017	3	1	1	1
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	680	2	1	1	1	1	2
	681	5	10	10	10	7	4
	682	4	10	5	6	3	4
	683	2	1	3	2	1	2
	684	2	1	1	1	1	2
	685	2	1	1	1	1	2
	686	2	1	1	1	1	2
	687	2	1	1	1	1	2
	688	2	1	2	3	1	2
	689	2	1	1	1	1	2
	690	2	1	1	1	8	2
	691	2	1	1	1	1	2
	692	4	5	4	4	1	4
	693	2	1	1	1	1	2
	694	2	1	2	1	2	2
	695	3	2	1	1	1	2
##	696	2	1	1	1	1	2

```
7
## 697
                                               3
                                                                    8
                                                                                        10
                                                                                                    2
                                                                                                            4
## 698
                            3
                                               4
                                                                   10
                                                                                                    1
                                                                                                            4
                                                                                          6
## 699
                            4
                                              5
                                                                   10
                                                                                          4
                                                                                                    1
                                                                                                            4
```

BreastCancerFileStats <- stat.desc(BreastCancerFile)
BreastCancerFileStats</pre>

```
##
                           id clump_thickness size_uniformity shape_uniformity
## nbr.val
                6.990000e+02
                                  699.0000000
                                                   699.0000000
                                                                     699.0000000
                                    0.000000
## nbr.null
                0.000000e+00
                                                     0.000000
                                                                       0.000000
                0.000000e+00
                                                                       0.000000
## nbr.na
                                    0.000000
                                                     0.000000
## min
                6.163400e+04
                                                                       1.0000000
                                    1.0000000
                                                     1.0000000
## max
                1.345435e+07
                                   10.0000000
                                                     10.0000000
                                                                      10.0000000
## range
                1.339272e+07
                                    9.000000
                                                     9.000000
                                                                       9.000000
## sum
                7.491212e+08
                                 3088.0000000
                                                  2191.0000000
                                                                    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
                                                                       0.2206984
                                    0.2091009
                                                     0.2266057
##
   var
                3.808071e+11
                                    7.9283955
                                                     9.3114027
                                                                       8.8322655
##
   std dev
                6.170957e+05
                                    2.8157407
                                                     3.0514591
                                                                       2.9719128
##
   coef.var
                5.758079e-01
                                    0.6373713
                                                     0.9735143
                                                                       0.9265687
##
                marginal_adhesion epithelial_size bare_nucleoli bland_chromatin
## nbr.val
                       699.0000000
                                       6.990000e+02
                                                                NA
                                                                      6.990000e+02
## nbr.null
                         0.0000000
                                       0.00000e+00
                                                                NΑ
                                                                      0.000000e+00
## nbr.na
                         0.0000000
                                       0.000000e+00
                                                                NA
                                                                      0.000000e+00
## min
                                                                      1.000000e+00
                         1.000000
                                       1.000000e+00
                                                                NΑ
## max
                        10.0000000
                                       1.000000e+01
                                                                NΑ
                                                                      1.000000e+01
## range
                                       9.000000e+00
                                                                NA
                                                                      9.000000e+00
                         9.0000000
## sum
                      1962.0000000
                                       2.248000e+03
                                                                NA
                                                                      2.403000e+03
## median
                         1.0000000
                                       2.000000e+00
                                                                NA
                                                                      3.000000e+00
  mean
                         2.8068670
                                       3.216023e+00
                                                                NA
                                                                      3.437768e+00
##
  SE.mean
                                                                NA
                         0.1080004
                                       8.375251e-02
                                                                      9.222741e-02
  CI.mean.0.95
                         0.2120445
                                       1.644370e-01
                                                                NA
                                                                      1.810764e-01
##
  var
                         8.1531906
                                       4.903124e+00
                                                                NA
                                                                      5.945620e+00
##
   std.dev
                         2.8553792
                                       2.214300e+00
                                                                NA
                                                                      2.438364e+00
   coef.var
                         1.0172834
                                       6.885212e-01
                                                                      7.092870e-01
##
                                                                NA
##
                normal_nucleoli
                                       mitoses
                                                       class
## nbr.val
                     699.0000000 6.990000e+02 6.990000e+02
                       0.0000000 0.000000e+00 0.000000e+00
  nbr.null
## nbr.na
                       0.0000000 0.000000e+00 0.000000e+00
## min
                       1.0000000 1.000000e+00 2.000000e+00
## max
                      10.0000000 1.000000e+01 4.000000e+00
                       9.0000000 9.000000e+00 2.000000e+00
## range
                    2004.0000000 1.111000e+03 1.880000e+03
## sum
                       1.0000000 1.000000e+00 2.000000e+00
## median
## mean
                       2.8669528 1.589413e+00 2.689557e+00
## SE.mean
                       0.1154990 6.487021e-02 3.598043e-02
## CI.mean.0.95
                       0.2267672 1.273641e-01 7.064284e-02
## var
                       9.3246800 2.941492e+00 9.049194e-01
                       3.0536339 1.715078e+00 9.512725e-01
## std.dev
                       1.0651148 1.079063e+00 3.536912e-01
## coef.var
```

ClumpThickness_StandardErrorMean <- BreastCancerFileStats["StandardErrorMean", "ClumpThickness_StandardClumpThickness_StandardErrorMean")

```
## NULL
```

MarginalAdhesion_CoefVari <- BreastCancerFileStats["CoefVari", "MarginalAdhesion"]
MarginalAdhesion_CoefVari

NULL

```
BareNucleoli_NumNull <- BreastCancerFileStats["NumNull", "BareNucleoli"]
BareNucleoli_NumNull</pre>
```

NULL

```
BlandChromatin_Mean <- BreastCancerFileStats["Mean", "BlandChromatin"]
BlandChromatin_Mean</pre>
```

NULL

BlandChromatin_StandardDevia <- BreastCancerFileStats["StandardDevia", "BlandChromatin"] BlandChromatin_StandardDevia

NULL

UniformityShellShape_ConInterMean <- BreastCancerFileStats["ConInterMean", "UniformityShellShape"] UniformityShellShape_ConInterMean

NULL

8d. How many attributes?

```
Num_Attri <- ncol(BreastCancerFile)
Num_Attri</pre>
```

[1] 11

8e. Find the percentage of respondents who are malignant. Interpret the results.

```
PercentageMalignant <- (sum(BreastCancerFile$class == 4) / nrow(BreastCancerFile)) * 100
pasteO("Percentage of Respondents who are Malignant: ", PercentageMalignant,"%")
```

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

#The result for the percentage of respondents who are malignant in the BreastCancerFile dataset contains the labels for benign and malignant, where 4 represents malignant .

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

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

```
library("AppliedPredictiveModeling")
library("xlsx")

data(abalone)
head(abalone)
```

```
##
     Type LongestShell Diameter Height WholeWeight ShuckedWeight VisceraWeight
## 1
       М
                 0.455
                          0.365 0.095
                                            0.5140
                                                          0.2245
                                                                        0.1010
## 2
                 0.350
                          0.265 0.090
                                            0.2255
                                                          0.0995
                                                                        0.0485
       М
## 3
       F
                 0.530
                          0.420 0.135
                                            0.6770
                                                          0.2565
                                                                        0.1415
## 4
       Μ
                 0.440
                          0.365 0.125
                                            0.5160
                                                          0.2155
                                                                        0.1140
## 5
       Ι
                 0.330
                          0.255 0.080
                                            0.2050
                                                          0.0895
                                                                        0.0395
## 6
                 0.425
                          0.300 0.095
                                            0.3515
                                                          0.1410
                                                                        0.0775
       Τ
```

```
## ShellWeight Rings
## 1
          0.150
                   15
## 2
          0.070
                   7
## 3
          0.210
                   9
## 4
          0.155
                   10
## 5
          0.055
                   7
## 6
                    8
          0.120
```

summary(abalone)

##	Туре	Longes	tShell	Diam	eter	Hei	ght	Whole	Veight
##	F:1307	Min.	:0.075	Min.	:0.0550	Min.	:0.0000	Min.	:0.0020
##	I:1342	1st Qu.	:0.450	1st Qu.	:0.3500	1st Qu.	:0.1150	1st Qu	:0.4415
##	M:1528	Median	:0.545	Median	:0.4250	Median	:0.1400	Median	:0.7995
##		Mean	:0.524	Mean	:0.4079	Mean	:0.1395	Mean	:0.8287
##		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
##	ShuckedW	eight	Viscera	Weight	ShellW	<i>l</i> eight	Rin	ıgs	
##	Min. :	0.0010	Min.	:0.0005	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	
##	Max. :	1.4880	Max.	:0.7600	Max.	:1.0050	Max.	:29.000	