## RWorksheet\_#6

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## 2023-12-21

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

```
StudentScore \leftarrow data.frame(Student = c(1,2,3,4,5,6,7,8,9,10),
                            PreTest = c(55,54,47,57,51,61,57,54,63,58),
                            PostTest = c(61,60,56,63,56,63,59,56,62,61))
StudentScore
##
      Student PreTest PostTest
## 1
            1
                    55
                             61
## 2
            2
                    54
                             60
            3
                    47
## 3
                             56
## 4
            4
                    57
                             63
## 5
            5
                   51
                             56
## 6
            6
                    61
                             63
            7
                    57
                             59
## 7
## 8
            8
                    54
                             56
## 9
            9
                    63
                             62
## 10
           10
                    58
                             61
install.packages("htmltools")
## Installing package into '/cloud/lib/x86_64-pc-linux-gnu-library/4.3'
## (as 'lib' is unspecified)
library(Hmisc)
##
## Attaching package: 'Hmisc'
## The following objects are masked from 'package:base':
##
##
       format.pval, units
library(pastecs)
pretest_stats <- describe(StudentScore$PreTest)</pre>
print(pretest_stats)
## StudentScore$PreTest
##
          n missing distinct
                                    Info
                                             Mean
                                                        Gmd
```

55.7

5.444

##

10

0

8

0.988

```
##
## Value
                                              63
                47
                    51 54
                           55
                                57
                                     58
                                         61
## Frequency
                     1
                          2
                              1
                                  2
                                       1
## Proportion 0.1 0.1 0.2 0.1 0.2 0.1 0.1 0.1
## For the frequency table, variable is rounded to the nearest 0
posttest_stats <- describe(StudentScore$PostTest)</pre>
print(posttest stats)
## StudentScore$PostTest
##
          n missing distinct
                                    Info
                                              Mean
                                                         Gmd
##
         10
                                   0.964
                                              59.7
                                                       3.311
##
## Value
                56
                   59
                        60 61
## Frequency
                 3
                     1
                              2
                          1
                                  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
pretest_stats_pastecs <- stat.desc(StudentScore$PreTest)</pre>
print(pretest_stats_pastecs)
##
        nbr.val
                     nbr.null
                                     nbr.na
                                                       min
                                                                     max
                                                                                 range
##
    10.00000000
                   0.0000000
                                 0.00000000
                                              47.0000000
                                                            63.00000000
                                                                          16.00000000
##
             sum
                       median
                                       mean
                                                  SE.mean CI.mean.0.95
                                                                                   var
##
  557.00000000
                  56.00000000
                                55.70000000
                                               1.46855938
                                                             3.32211213
                                                                          21.56666667
##
                     coef.var
        std.dev
     4.64399254
                   0.08337509
posttest_stats_pastecs <- stat.desc(StudentScore$PostTest)</pre>
print(posttest_stats_pastecs)
##
        nbr.val
                     nbr.null
                                     nbr.na
                                                      min
                                                                                range
                                                                    max
                                 0.00000000
                                              56.00000000
##
    10.00000000
                   0.00000000
                                                           63.00000000
                                                                           7.0000000
                                                  SE.mean CI.mean.0.95
##
             SIIM
                       median
                                       mean
                                                                                   var
##
  597.00000000
                  60.50000000
                                59.70000000
                                               0.89504811
                                                             2.02473948
                                                                           8.01111111
##
                     coef.var
        std.dev
     2.83039063
                   0.04741023
  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:pastecs':
##
##
       first, last
##
  The following objects are masked from 'package:Hmisc':
##
##
       src, summarize
## The following objects are masked from 'package:stats':
##
##
       filter, lag
```

```
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
fertLev <- c(10,10,10, 20,20,50,10,20,10,50,20,50,20,10)
orderedFactor <- factor(fertLev, levels = unique(fertLev))</pre>
basicStats <- summary(orderedFactor)</pre>
basicStats
## 10 20 50
## 6 5 3
  3. Abdul Hassan, president of Floor Coverings Unlimited, has asked you to study the ex- ercise levels
     undertaken by 10 subjects were "l", "n", "n", "i", "l", "l", "n",
"n", "i", "l"; n=none, l=light, i=intense a. What is the best way to represent this in R?
exercise_levels <- c("l", "n", "n", "i", "l", "l", "n", "n", "i", "l")
exerciseFactor <- factor(exercise_levels, levels = c("n", "l", "i"), labels = c("none", "light", "inten
exerciseFactor
   [1] light
                                   intense light
                                                                               intense
                 none
                                                    light
                          none
                                                             none
                                                                      none
## [10] light
## Levels: none light intense
  4. Sample of 30 tax accountants from all the states and territories of Australia and their individual state
     of origin is specified by a character vector of state mnemonics as: state <- c("tas", "sa", "qld", "nsw",
     "nsw", "nt", "wa", "wa", "qld", "vic", "nsw", "vic", "qld", "qld", "sa", "tas", "sa", "nt", "wa", "vic",
     "qld", "nsw", "nsw", "wa", "sa", "act", "nsw", "vic", "vic", "act")
  a. Apply the factor function and factor level. Describe the results.
state <- c("tas", "sa", "qld", "nsw", "nsw", "nt", "wa", "wa", "qld",
            "vic", "nsw", "vic", "qld", "qld", "sa", "tas", "sa", "nt",
            "wa", "vic", "qld", "nsw", "nsw", "wa", "sa", "act", "nsw",
            "vic", "vic", "act")
stateFactor <- factor(state, levels = c("act", "nsw", "nt", "qld", "sa", "tas", "vic", "wa"))</pre>
stateFactor
## [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
```

- 5. 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)
- a. Calculate the sample mean income for each state we can now use the special function tapply():

```
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
stateFactor <- factor(state, levels = c("act", "nsw", "nt", "qld", "sa", "tas", "vic", "wa"))</pre>
incMeans <- tapply(incomes, stateFactor, mean)</pre>
incMeans
##
        act
                                    qld
                                                                vic
                 nsw
                            nt.
                                               sa
                                                       tas
                                                                           พล
## 44.50000 57.33333 55.50000 53.60000 55.00000 60.50000 56.00000 52.25000
  b. Copy the results and interpret.
# act
           nsw
                     nt
                              qld sa tas vic
# 44.50000 57.33333 55.50000 53.60000 55.00000 60.50000 56.00000 52.25000
#These results provide an average income for tax accountants in each state based on the provided data.
6.Calculate the standard errors of the state income means (refer again to number 3) stdError <- function(x)
sqrt(var(x)/length(x))
  a. What is the standard error? Write the codes.
stdError <- function(x) sqrt(var(x)/length(x))</pre>
incster <- tapply(incomes, state, stdError)</pre>
standardError <- tapply(incomes, stateFactor, stdError)</pre>
standardError
        act
                            nt
                                    qld
                                                       tas
                                                                vic
## 1.500000 4.310195 4.500000 4.106093 2.738613 0.500000 5.244044 2.657536
  b. Interpret the results.
#In summary, standard deviations provide a measure of the spread or variability of incomes within each
  7. Use the titanic dataset.
  a. subset the titatic dataset of those who survived and not survived. Show the codes and its result.
library(titanic)
data("titanic train")
titanic data <- titanic train
str(titanic data)
                    891 obs. of 12 variables:
## 'data.frame':
## $ PassengerId: int 1 2 3 4 5 6 7 8 9 10 ...
                 : int 0 1 1 1 0 0 0 0 1 1 ...
## $ Survived
                 : int 3 1 3 1 3 3 1 3 3 2 ...
   $ Pclass
## $ Name
                 : chr
                        "Braund, Mr. Owen Harris" "Cumings, Mrs. John Bradley (Florence Briggs Thayer)"
##
  $ Sex
                 : chr
                         "male" "female" "female" "female" ...
##
                         22 38 26 35 35 NA 54 2 27 14 ...
    $ Age
                  : num
## $ SibSp
                        1 1 0 1 0 0 0 3 0 1 ...
                 : int
                        0 0 0 0 0 0 0 1 2 0 ...
## $ Parch
                 : int
                        "A/5 21171" "PC 17599" "STON/O2. 3101282" "113803" ...
## $ Ticket
                  : chr
## $ Fare
                        7.25 71.28 7.92 53.1 8.05 ...
                  : num
                        "" "C85" "" "C123" ...
##
   $ Cabin
                 : chr
                        "S" "C" "S" "S" ...
## $ Embarked
                 : chr
```

```
Survived <- subset(titanic_data, Survived == 1)

didNotSurvived <- subset(titanic_data, Survived == 0)
didNotSurvived</pre>
```

u_i	11100	Daivivea		
##		PassengerId	Survived	Pclass
##	1	1	0	3
##	5	5	0	3
##	6	6	0	3
##	7	7	0	1
##	8	8	0	3
##	13	13	0	3
##	14	14	0	3
##	15	15	0	3
##	17	17	0	3
##	19	19	0	3
##	21	21	0	2
##	25	25	0	3
##	27	27	0	3
##	28	28	0	1
##	30	30	0	3
##	31	31	0	1
##	34	34	0	2
##	35	35	0	1
##	36	36	0	1
## ##	38 39	38 39	0	3 3
##	39 41	41	0	3
##	42	42	0	2
##	43	43	0	3
##	46	46	0	3
##	47	47	0	3
##	49	49	0	3
##	50	50	0	3
##	51	51	0	3
##	52	52	0	3
##	55	55	0	1
##	58	58	0	3
##	60	60	0	3
##	61	61	0	3
##	63	63	0	1
##	64	64	0	3
##	65	65	0	1
##	68	68	0	3
##	70	70	0	3
##	71	71	0	2
##	72	72	0	3
##	73	73	0	2
##	74	74	0	3
##	76 77	76 77	0	3
##	77	77	0	3
##	78	78	0	3
##	81	81	0	3

	0.4	0.4	•	
##	84	84	0	1
##	87	87	0	3
##	88	88	0	3
##	90	90	0	3
##	91	91	0	3
##	92	92	0	3
##	93	93	0	1
##	94	94	0	3
##	95	95	0	3
##	96	96	0	3
##	97	97	0	1
##	100	100	0	2
##	101	101	0	3
##	102	102	0	3
##	103	103	0	1
##	104	104	0	3
##	105	105	0	3
##	106	106	0	3
##	109	109	0	3
##	111	111	0	1
##	112	112	0	3
##	113	113	0	3
##	114	114	0	3
##	115	115	0	3
##	116	116	0	3
##	117	117	0	3
##	118	118	0	2
##	119	119	0	1
##	120	120	0	3
##	121	121	0	2
##	122	122	0	3
##	123	123	0	2
##	125	125	0	1
##	127	127	0	3
##	130	130	0	3
##	131	131	0	3
##	132	132	0	3
##	133	133	0	3
##	135	135	0	2
##	136	136	0	2
##	138	138	0	1
##	139	139	0	3
##	140	140	0	1
##	141	141	0	3
##	144	144	0	3
##	145	145	0	2
##	146	146	0	2
##	148	148	0	3
##	149	149	0	2
##	150	150	0	2
##	151	151	0	2
##	153	153	0	3
##	154	154	0	3
##	155	155	0	3
		-00	•	_

##	156	156	0	1
##	158	158	0	3
##	159	159	0	3
##	160	160	0	3
##	161	161	0	3
##	163	163	0	3
##	164	164	0	3
##	165	165	0	3
##	168	168	0	3
##	169	169	0	1
##	170	170	0	3
##	171	171	0	1
	172	172		3
##			0	
##	174	174	0	3
##	175	175	0	1
##	176	176	0	3
##	177	177	0	3
##	178	178	0	1
##	179	179	0	2
##	180	180	0	3
##	181	181	0	3
##	182	182	0	2
##	183	183	0	3
##	186	186	0	1
##	189	189	0	3
##	190	190	0	3
##	192	192	0	2
##	197	197	0	3
##	198	198	0	3
##	200	200	0	2
##	201	201	0	3
##	202	202	0	3
##	203	203	0	3
##	204	204	0	3
##	206	206	0	3
##	207	207	0	3
##	211	211	0	3
##	213	213	0	3
##	214	214	0	2
##	215	215	0	3
##	218	218	0	2
##	220	220	0	2
##	222	222	0	2
##	223	223	0	3
##	224	224	0	3
##	226	226	0	3
##	228	228	0	3
##	229	229	0	2
##	230	230	0	3
##	232	232	0	3
##	233	233	0	2
##	235	235	0	2
##	236	236	0	3
##	237	237	0	2
##	201	231	U	2

## 239	239	0	2
## 240	240	0	2
## 241	241	0	3
## 243	243	0	2
## 244	244	0	3
## 245	245	0	3
## 246	246	0	1
## 247	247	0	3
## 250	250	0	2
## 251	251	0	3
## 252	252	0	3
## 253	253	0	1
## 254	254	0	3
## 255	255	0	3
## 261	261	0	3
## 263	263	0	1
## 264	264	0	1
## 265	265	0	3
## 266	266	0	2
## 267	267	0	3
## 271	271	0	1
## 274	274	0	1
## 277	277	0	3
## 278	278	0	2
## 279	279	0	3
## 281	281	0	3
## 282	282	0	3
## 283	283	0	3
## 285	285	0	1
## 286	286	0	3
## 288	288	0	3
## 293	293	0	2
## 294	294	0	3
## 295	295	0	3
## 296	296	0	1
## 297	297	0	3
## 298	298	0	1
		_	_
## 303	303	0	3
## 305	305	0	3
## 309	309	0	2
## 313	313	0	2
## 314	314	0	3
## 315	315	0	2
## 318	318	0	2
## 321	321	0	3
## 322	322	0	3
## 325	325	0	3
## 327	327	0	3
## 332	332	0	1
## 333	333	0	1
## 334	334	0	3
## 336	336	0	3
## 337	337	0	1
## 340	340	0	1

## 343	343	0	2
## 344	344	0	2
## 345	345	0	2
## 350	350	0	3
## 351	351	0	3
## 352	352	0	1
## 353	353	0	3
## 354	354	0	3
## 355	355	0	3
## 356	356	0	3
## 358	358	0	2
## 361	361	0	3
## 362	362	0	2
## 363	363	0	3
## 364	364	0	3
## 365	365	0	3
## 366	366	0	3
## 372	372	0	3
## 373	373	0	3
## 374	374	0	1
## 375	375	0	3
## 378	378	0	1
## 379	379	0	3
## 380	380	0	3
## 383	383	0	3
## 385	385	0	3
## 386	386	0	2
## 387	387	0	3
## 389	389	0	3
## 393	393	0	3
## 396	396	0	3
## 397	397	0	3
## 398	398	0	2
## 399	399	0	2
## 402	402	0	3
## 403	403	0	3
## 404	404	0	3
## 405	405	0	3
## 406	406	0	2
## 407	407	0	3
## 409	409	0	3
## 410		0	
	410		3
## 411	411	0	3
## 412	412	0	3
## 414	414	0	2
## 416	416	0	3
## 419	419	0	2
## 420	420	0	3
## 421	421	0	3
## 422	422	0	3
## 423	423	0	3
## 424	424	0	3
## 425	425	0	3
## 426	426	0	3
"" IZO	720	V	J

##	429	429	0	3
##	434	434	0	3
##	435	435	0	1
##	437	437	0	3
##	439	439	0	1
##	440	440	0	2
##	442	442	0	3
##	443	443	0	3
##	451	451	0	2
##	452	452	0	3
##				
	453	453	0	1
##	455	455	0	3
##	457	457	0	1
##	460	460	0	3
##	462	462	0	3
##	463	463	0	1
##	464	464	0	2
##	465	465	0	3
##	466	466	0	3
##	467	467	0	2
##	468	468	0	1
##	469	469	0	3
##	471	471	0	3
##	472	472	0	3
##	475	475	0	3
##	476	476	0	1
##	477	477	0	2
##	478	478	0	3
##	479	479	0	3
##	481	481	0	3
##	482	482	0	2
##	483	483	0	3
##	486	486	0	3
##	488	488	0	1
##	489	489	0	3
##	491	491	0	3
##	492	492	0	3
##	493	493	0	1
##	494	494	0	1
##	495	495	0	3
##	496	496	0	3
##	498	498	0	3
##	499	499	0	1
##	500	500	0	3
##	501	501	0	3
##	502	502	0	3
##	503	503	0	3
##	504	504	0	3
##	504	504 506	0	1
##	509	509	0	3
##	512	512	0	3
##	515	515	0	3
##	516	516	0	1
##	518	518	0	3

	500	500	^	_
##	520	520	0	3
##	522	522	0	3
##	523	523	0	3
##	525	525	0	3
##	526	526	0	3
##	528	528	0	1
##	529	529	0	3
##	530	530	0	2
##	532	532	0	3
##	533	533	0	3
##	535	535	0	3
##	537	537	0	1
##	539	539	0	3
##	542	542	0	3
##	543	543	0	3
##	545	545	0	1
##	546	546	0	1
##	549	549	0	3
##	552	552	0	2
##	553	553	0	3
##	556	556	0	1
##	558	558	0	1
##	561	561	0	3
##	562	562	0	3
##	563	563	0	2
##	564	564	0	3
##	565	565	0	3
##	566	566	0	3
##	567	567	0	3
##	568	568	0	3
##	569	569	0	3
##	575	575	0	3
##	576	576	0	3
##	579	579	0	3
##	583	583	0	2
##	584	584	0	1
##	585	585	0	3
##	587	587	0	2
##	589	589	0	3
##	590	590	0	3
##	591	591	0	3
##	593	593	0	3
##	594	594	0	3
##	595	595	0	2
##	596	596	0	3
##	598	598	0	3
##	599	596 599	0	3
##	602	602	0	3
##	603	603	0	1
##	604	604	0	3
##	606	606	0	3
##	607	607	0	3
##	611	611	0	3
##	612	612	0	3

##	614	614	0	3
##	615	615	0	3
##	617	617	0	3
##	618	618	0	3
##	620	620	0	2
##	621	621	0	3
##	624	624	0	3
##	625	625	0	3
##	626	626	0	1
##	627	627	0	2
##	629	629	0	3
##	630	630	0	3
##	632	632	0	3
##	634	634	0	1
##	635	635	0	3
##	637	637	0	3
##	638	638	0	2
##	639	639	0	3
##	640	640	0	3
##	641	641	0	3
##	643	643	0	3
##	647	647	0	3
##	649	649	0	3
##	651	651	0	3
##	653	653	0	3
##	655	655	0	3
##	656	656	0	2
##	657	657	0	3
##	658	658	0	3
##	659	659	0	2
##	660	660	0	1
##	662	662	0	3
##	663	663	0	1
##	664	664	0	3
##	666	666	0	2
##	667	667	0	2
##	668	668	0	3
			_	_
##	669	669	0	3
##	672	672	0	1
##	673 675	673	0	2
	676	675		2
##		676	0	3
## ##	677	677	0	3
	679	679	0	3
##	681	681	0	3
##	683	683	0	3
##	684	684	0	3
##	685	685	0	2
##	686	686	0	2
##	687	687	0	3
##	688	688	0	3
##	689	689	0	3
##	694	694	0	3
##	695	695	0	1

	200	•	_
## 696	696	0	2
## 697	697	0	3
## 699	699	0	1
## 700	700	0	3
## 703	703	0	3
## 704	704	0	3
## 705	705	0	3
## 706	706	0	2
## 712	712	0	1
## 714	714	0	3
## 715	715	0	2
## 716	716	0	3
## 719	719	0	3
## 720	720	0	3
## 722	722	0	3
## 723	723	0	2
## 724	724	0	2
## 726	726	0	3
## 729	729	0	2
## 730	730	0	3
## 732	732	0	3
## 733	733	0	2
## 734	734	0	2
## 735	735	0	2
## 736	736	0	3
## 737	737	0	3
## 739	739	0	3
## 740	740	0	3
## 742	742	0	1
## 744	744	0	3
## 746	746	0	1
## 747	747	0	3
## 749	749	0	1
	750 750	0	3
## 753	753	0	3
## 754	754	0	3
## 757	757	0	3
## 758	758	0	2
## 759	759	0	3
## 761	761	0	3
## 762	762	0	3
## 765	765	0	3
## 767	767	0	1
## 768	768	0	3
## 769	769	0	3
## 770	770	0	3
## 770	771	0	3
	771 772		
		0	3
## 773	773	0	2
## 774	774	0	3
## 776	776	0	3
## 777	777	0	3
## 779	779	0	3
## 783	783	0	1

## 784	784	0	3
## 785	785	0	3
## 786	786	0	3
## 788	788	0	3
## 790	790	0	1
## 791	791	0	3
## 792	792	0	2
## 793	793	0	3
## 794	794	0	1
## 795	795	0	3
## 796	796	0	2
## 799	799	0	3
## 800	800	0	3
## 801	801	0	2
## 806	806	0	3
## 807	807	0	1
## 808	808	0	3
## 809	809	0	2
## 811	811	0	3
## 812	812	0	3
## 813	813	0	2
## 814	814	0	3
## 815	815	0	3
## 816	816	0	1
## 817	817	0	3
## 818	818	0	2
## 819	819	0	3
## 820	820	0	3
## 823	823	0	1
## 825	825	0	3
## 826	826	0	3
## 827	827	0	3
## 833	833	0	3
## 834	834	0	3
## 835	835	0	3
## 837	837	0	3
## 838	838	0	3
## 841	841	0	3
## 842	842	0	2
## 844	844	0	3
## 845	845	0	3
## 846	846	0	3
## 847	847	0	3
## 848	848	0	3 2
## 849	849	0	
## 851 ## 852	851 852	0	3 3
## 852 ## 853	852 853	0	3
## 853 ## 855	853 855	0	2
## 860	860	0	3
## 861	861	0	3
## 862	862	0	2
## 864	864	0	3
## 865	865	0	2
555	000	v	_

```
## 868
                868
                                   1
## 869
                869
                           0
                                   3
## 871
                871
                           0
                                   3
                           0
## 873
               873
                                   1
## 874
                874
                           0
                                   3
## 877
                           0
                                   3
                877
## 878
                           0
                                   3
                878
## 879
                879
                           0
                                   3
## 882
                882
                           0
                                   3
## 883
                           0
                                   3
                883
## 884
                884
                           0
                                   2
                           0
                                   3
## 885
                885
                                   3
## 886
                886
                           0
                                   2
                           0
## 887
                887
## 889
                889
                           0
                                   3
## 891
                891
                           0
                                   3
##
                                                                Name
                                                                        Sex Age SibSp
## 1
                                           Braund, Mr. Owen Harris
                                                                       male 22.0
                                          Allen, Mr. William Henry
## 5
                                                                       male 35.0
                                                                                      0
## 6
                                                   Moran, Mr. James
                                                                       male
                                                                                      0
## 7
                                           McCarthy, Mr. Timothy J
                                                                       male 54.0
                                                                                      0
## 8
                                    Palsson, Master. Gosta Leonard
                                                                       male 2.0
## 13
                                    Saundercock, Mr. William Henry
                                                                       male 20.0
                                                                                      0
## 14
                                       Andersson, Mr. Anders Johan
                                                                       male 39.0
## 15
                              Vestrom, Miss. Hulda Amanda Adolfina female 14.0
## 17
                                              Rice, Master. Eugene
                                                                       male 2.0
## 19
         Vander Planke, Mrs. Julius (Emelia Maria Vandemoortele) female 31.0
                                                                                      1
## 21
                                               Fynney, Mr. Joseph J
                                                                       male 35.0
                                                                                      0
## 25
                                     Palsson, Miss. Torborg Danira female
                                                                                      3
                                                                             8.0
## 27
                                           Emir, Mr. Farred Chehab
                                                                       male
                                                                                      0
                                                                               NA
## 28
                                    Fortune, Mr. Charles Alexander
                                                                       male 19.0
                                                                                      3
## 30
                                                Todoroff, Mr. Lalio
                                                                       male
                                                                               NΑ
                                                                                      0
## 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
                                                                                      1
## 36
                                    Holverson, Mr. Alexander Oskar
                                                                       male 42.0
                                                                                      1
## 38
                                          Cann, Mr. Ernest Charles
                                                                       male 21.0
## 39
                                Vander Planke, Miss. Augusta Maria female 18.0
                                                                                      2
## 41
                   Ahlin, Mrs. Johan (Johanna Persdotter Larsson) female 40.0
## 42
        Turpin, Mrs. William John Robert (Dorothy Ann Wonnacott) female 27.0
## 43
                                                Kraeff, Mr. Theodor
                                                                       male
## 46
                                          Rogers, Mr. William John
                                                                                      0
                                                                       male
                                                                               NΑ
## 47
                                                  Lennon, Mr. Denis
                                                                       male
                                                                               NA
                                                                                      1
                                                                                      2
## 49
                                                Samaan, Mr. Youssef
                                                                       male
                                                                               NA
## 50
                    Arnold-Franchi, Mrs. Josef (Josefine Franchi) female 18.0
                                                                                      1
                                        Panula, Master. Juha Niilo
## 51
                                                                       male 7.0
                                                                                      4
## 52
                                      Nosworthy, Mr. Richard Cater
                                                                       male 21.0
                                                                                      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
                                                                                      5
## 61
                                             Sirayanian, Mr. Orsen
                                                                       male 22.0
                                                                                      0
## 63
                                       Harris, Mr. Henry Birkhardt
                                                                       male 45.0
                                                                                      1
## 64
                                              Skoog, Master. Harald
                                                                       male 4.0
                                                                                      3
## 65
                                              Stewart, Mr. Albert A
                                                                       male
                                                                               NA
```

```
## 68
                                          Crease, Mr. Ernest James
                                                                      male 19.0
## 70
                                                 Kink, Mr. Vincenz
                                                                      male 26.0
                                                                                     2
## 71
                                        Jenkin, Mr. Stephen Curnow
                                                                      male 32.0
## 72
                                        Goodwin, Miss. Lillian Amy female 16.0
## 73
                                              Hood, Mr. Ambrose Jr
                                                                      male 21.0
## 74
                                      Chronopoulos, Mr. Apostolos
                                                                      male 26.0
## 76
                                           Moen, Mr. Sigurd Hansen
                                                                      male 25.0
                                                 Staneff, Mr. Ivan
## 77
                                                                      male
                                                                             NΑ
                                                                                     0
## 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
                                                                                     0
                                                                             NA
## 90
                                            Celotti, Mr. Francesco
                                                                      male 24.0
## 91
                                              Christmann, Mr. Emil
                                                                      male 29.0
                                                                                     0
## 92
                                        Andreasson, Mr. Paul Edvin
                                                                      male 20.0
## 93
                                      Chaffee, Mr. Herbert Fuller
                                                                      male 46.0
## 94
                                           Dean, Mr. Bertram Frank
                                                                      male 26.0
## 95
                                                                      male 59.0
                                                 Coxon, Mr. Daniel
                                                                                     0
## 96
                                      Shorney, Mr. Charles Joseph
                                                                      male
                                                                                     0
## 97
                                         Goldschmidt, Mr. George B
                                                                      male 71.0
                                                                                     Λ
## 100
                                                 Kantor, Mr. Sinai
                                                                      male 34.0
## 101
                                           Petranec, Miss. Matilda female 28.0
                                                                                     0
## 102
                                 Petroff, Mr. Pastcho ("Pentcho")
                                                                      male
                                                                             NA
## 103
                                         White, Mr. Richard Frasar
                                                                      male 21.0
                                                                                     0
## 104
                                        Johansson, Mr. Gustaf Joel
                                                                      male 33.0
                                                                                     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
## 111
                                   Porter, Mr. Walter Chamberlain
                                                                      male 47.0
                                                                                     0
## 112
                                              Zabour, Miss. Hileni female 14.5
## 113
                                            Barton, Mr. David John
                                                                      male 22.0
                                                                                     0
## 114
                                           Jussila, Miss. Katriina female 20.0
## 115
                                             Attalah, Miss. Malake female 17.0
                                                                                     0
## 116
                                             Pekoniemi, Mr. Edvard
                                                                      male 21.0
                                              Connors, Mr. Patrick
## 117
                                                                      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
                                                                                     2
                                                                      male 21.0
## 122
                                       Moore, Mr. Leonard Charles
                                                                      male
                                                                             NA
## 123
                                              Nasser, Mr. Nicholas
                                                                      male 32.5
                                                                                     1
## 125
                                      White, Mr. Percival Wayland
                                                                      male 54.0
                                                                                     0
## 127
                                               McMahon, Mr. Martin
                                                                      male
                                                                                     0
                                                                             NA
## 130
                                                Ekstrom, Mr. Johan
                                                                      male 45.0
                                              Drazenoic, Mr. Jozef
## 131
                                                                      male 33.0
                                                                                     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
                                                                                     0
## 138
                                                                      male 37.0
                                      Futrelle, Mr. Jacques Heath
                                                                                     1
## 139
                                               Osen, Mr. Olaf Elon
                                                                      male 16.0
## 140
                                                Giglio, Mr. Victor
                                                                      male 24.0
                                                                                     0
## 141
                                    Boulos, Mrs. Joseph (Sultana) female
```

```
## 144
                                               Burke, Mr. Jeremiah
                                                                      male 19.0
## 145
                                       Andrew, Mr. Edgardo Samuel
                                                                      male 18.0
                                                                                     0
## 146
                                                                      male 19.0
                                     Nicholls, Mr. Joseph Charles
## 148
                                 Ford, Miss. Robina Maggie "Ruby" female 9.0
                                                                                     2
## 149
                         Navratil, Mr. Michel ("Louis M Hoffman")
                                                                      male 36.5
## 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
                                                                                     0
## 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
                                                                      male 30.0
                                                   Corn, Mr. Harry
                                                                                     0
## 159
                                               Smiljanic, Mr. Mile
                                                                      male
                                                                                     0
                                                                             NA
## 160
                                                                      male
                                       Sage, Master. Thomas Henry
                                                                             NA
## 161
                                          Cribb, Mr. John Hatfield
                                                                      male 44.0
                                                                                     0
## 163
                                       Bengtsson, Mr. John Viktor
                                                                      male 26.0
## 164
                                                   Calic, Mr. Jovo
                                                                      male 17.0
                                                                                     0
## 165
                                     Panula, Master. Eino Viljami
                                                                      male 1.0
## 168
                 Skoog, Mrs. William (Anna Bernhardina Karlsson) female 45.0
                                                                                     1
## 169
                                               Baumann, Mr. John D
                                                                      male
## 170
                                                     Ling, Mr. Lee
                                                                      male 28.0
                                                                                     0
## 171
                                         Van der hoef, Mr. Wyckoff
                                                                      male 61.0
## 172
                                              Rice, Master. Arthur
                                                                      male 4.0
## 174
                                         Sivola, Mr. Antti Wilhelm
                                                                      male 21.0
## 175
                                           Smith, Mr. James Clinch
                                                                      male 56.0
## 176
                                            Klasen, Mr. Klas Albin
                                                                      male 18.0
                                                                                     1
## 177
                                    Lefebre, Master. Henry Forbes
                                                                      male
                                                                             NA
                                                                                     3
## 178
                                        Isham, Miss. Ann Elizabeth female 50.0
                                                                                     0
## 179
                                                Hale, Mr. Reginald
                                                                      male 30.0
## 180
                                               Leonard, Mr. Lionel
                                                                      male 36.0
## 181
                                     Sage, Miss. Constance Gladys female
                                                                             NA
                                                                                     8
## 182
                                                  Pernot, Mr. Rene
                                                                      male
                                                                             NΑ
                                                                                     0
## 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
                                                                                     0
                                                                             NA
## 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
## 202
                                               Sage, Mr. Frederick
                                                                      male
                                                                             NA
                                                                                     8
## 203
                                        Johanson, Mr. Jakob Alfred
                                                                      male 34.0
                                                                                     0
## 204
                                                                      male 45.5
                                                                                     0
                                              Youseff, Mr. Gerious
## 206
                                       Strom, Miss. Telma Matilda female 2.0
## 207
                                       Backstrom, Mr. Karl Alfred
                                                                      male 32.0
                                                                                     1
## 211
                                                    Ali, Mr. Ahmed
                                                                      male 24.0
                                                                                     0
## 213
                                            Perkin, Mr. John Henry
                                                                      male 22.0
## 214
                                      Givard, Mr. Hans Kristensen
                                                                      male 30.0
                                                                                     0
## 215
                                               Kiernan, Mr. Philip
                                                                      male
                                                                             NA
                                                                                     1
## 218
                                      Jacobsohn, Mr. Sidney Samuel
                                                                      male 42.0
                                                                                     1
## 220
                                                Harris, Mr. Walter
                                                                      male 30.0
## 222
                                              Bracken, Mr. James H
                                                                      male 27.0
                                                                                     0
## 223
                                           Green, Mr. George Henry
                                                                      male 51.0
```

```
## 224
                                              Nenkoff, Mr. Christo
                                                                      male
## 226
                                                                      male 22.0
                                     Berglund, Mr. Karl Ivar Sven
                                                                                     0
                                  Lovell, Mr. John Hall ("Henry")
## 228
                                                                      male 20.5
## 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
                                        Sjostedt, Mr. Ernst Adolf
                                                                      male 59.0
## 235
                                Leyson, Mr. Robert William Norman
                                                                      male 24.0
                                                                                     0
## 236
                                     Harknett, Miss. Alice Phoebe female
                                                                             NA
                                                                                     Λ
## 237
                                                 Hold, Mr. Stephen
                                                                      male 44.0
## 239
                                  Pengelly, Mr. Frederick William
                                                                      male 19.0
## 240
                                                                      male 33.0
                                            Hunt, Mr. George Henry
                                                                                     0
## 241
                                             Zabour, Miss. Thamine female
                                                                             NA
                                                                                     1
## 243
                                  Coleridge, Mr. Reginald Charles
                                                                      male 29.0
## 244
                                    Maenpaa, Mr. Matti Alexanteri
                                                                      male 22.0
                                                                                     0
## 245
                                              Attalah, Mr. Sleiman
                                                                      male 30.0
                                                                                     0
## 246
                                      Minahan, Dr. William Edward
                                                                      male 44.0
                                                                                     2
## 247
                            Lindahl, Miss. Agda Thorilda Viktoria female 25.0
                                    Carter, Rev. Ernest Courtenay
## 250
                                                                      male 54.0
                                                                                     1
## 251
                                            Reed, Mr. James George
                                                                      male
## 252
                      Strom, Mrs. Wilhelm (Elna Matilda Persson) female 29.0
## 253
                                        Stead, Mr. William Thomas
                                                                      male 62.0
## 254
                                         Lobb, Mr. William Arthur
                                                                      male 30.0
## 255
                         Rosblom, Mrs. Viktor (Helena Wilhelmina) female 41.0
## 261
                                                 Smith, Mr. Thomas
                                                                      male
## 263
                                                 Taussig, Mr. Emil
                                                                      male 52.0
                                                                                     1
## 264
                                             Harrison, Mr. William
                                                                      male 40.0
                                                                                     0
## 265
                                                Henry, Miss. Delia female
                                                                             NA
                                                                                     0
## 266
                                                 Reeves, Mr. David
                                                                      male 36.0
## 267
                                        Panula, Mr. Ernesti Arvid
                                                                      male 16.0
## 271
                                            Cairns, Mr. Alexander
                                                                      male
## 274
                                            Natsch, Mr. Charles H
                                                                      male 37.0
                                                                                     0
## 277
                                Lindblom, Miss. Augusta Charlotta female 45.0
                                      Parkes, Mr. Francis "Frank"
## 278
                                                                      male
                                                                             NA
                                                                                     0
## 279
                                                Rice, Master. Eric
                                                                      male 7.0
                                                  Duane, Mr. Frank
                                                                      male 65.0
## 281
                                                                                     0
## 282
                                 Olsson, Mr. Nils Johan Goransson
                                                                      male 28.0
## 283
                                        de Pelsmaeker, Mr. Alfons
                                                                      male 16.0
                                                                                     0
## 285
                                       Smith, Mr. Richard William
                                                                      male
                                                                             NA
## 286
                                               Stankovic, Mr. Ivan
                                                                      male 33.0
## 288
                                              Naidenoff, Mr. Penko
                                                                      male 22.0
## 293
                                           Levy, Mr. Rene Jacques
                                                                      male 36.0
                                                                                     0
## 294
                                               Haas, Miss. Aloisia female 24.0
                                                                                     0
## 295
                                                  Mineff, Mr. Ivan
                                                                      male 24.0
                                                                                     0
## 296
                                                 Lewy, Mr. Ervin G
                                                                      male
                                                                             NA
## 297
                                                Hanna, Mr. Mansour
                                                                      male 23.5
                                                                                     0
                                     Allison, Miss. Helen Loraine female 2.0
## 298
## 303
                                  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
                                                                                     1
## 318
                                              Moraweck, Dr. Ernest
                                                                      male 54.0
```

```
## 321
                                                Dennis, Mr. Samuel
                                                                      male 22.0
## 322
                                                  Danoff, Mr. Yoto
                                                                      male 27.0
                                                                                     0
## 325
                                          Sage, Mr. George John Jr
                                                                      male
                                                                                     8
## 327
                                         Nysveen, Mr. Johan Hansen
                                                                      male 61.0
                                                                                     0
## 332
                                               Partner, Mr. Austen
                                                                      male 45.5
## 333
                                                                      male 38.0
                                         Graham, Mr. George Edward
                                                                                     0
## 334
                                  Vander Planke, Mr. Leo Edmondus
                                                                      male 16.0
## 336
                                                Denkoff, Mr. Mitto
                                                                      male
                                                                              NA
                                                                                     0
## 337
                                         Pears, Mr. Thomas Clinton
                                                                      male 29.0
                                                                                     1
## 340
                                     Blackwell, Mr. Stephen Weart
                                                                      male 45.0
                                                                                     0
## 343
                                        Collander, Mr. Erik Gustaf
                                                                      male 28.0
                                                                                     0
## 344
                       Sedgwick, Mr. Charles Frederick Waddington
                                                                      male 25.0
                                                                                     0
## 345
                                           Fox, Mr. Stanley Hubert
                                                                      male 36.0
                                                                                     0
## 350
                                                                      male 42.0
                                                  Dimic, Mr. Jovan
## 351
                                            Odahl, Mr. Nils Martin
                                                                      male 23.0
                                                                                     0
## 352
                           Williams-Lambert, Mr. Fletcher Fellows
                                                                      male
                                                                              NA
                                                                                     0
## 353
                                                                      male 15.0
                                                Elias, Mr. Tannous
## 354
                                         Arnold-Franchi, Mr. Josef
                                                                      male 25.0
## 355
                                                 Yousif, Mr. Wazli
                                                                      male
                                                                             NA
                                                                                     0
## 356
                                       Vanden Steen, Mr. Leo Peter
                                                                      male 28.0
                                                                                     0
## 358
                                         Funk, Miss. Annie Clemmer female 38.0
                                                                                     Λ
## 361
                                                                      male 40.0
                                                Skoog, Mr. Wilhelm
                                         del Carlo, Mr. Sebastiano
## 362
                                                                      male 29.0
                                                                                     1
## 363
                                  Barbara, Mrs. (Catherine David) female 45.0
## 364
                                                   Asim, Mr. Adola
                                                                      male 35.0
## 365
                                               O'Brien, Mr. Thomas
                                                                      male
                                                                             NA
                                                                                     1
## 366
                                   Adahl, Mr. Mauritz Nils Martin
                                                                      male 30.0
                                                                                     0
## 372
                                         Wiklund, Mr. Jakob Alfred
                                                                      male 18.0
                                                                                     1
## 373
                                        Beavan, Mr. William Thomas
                                                                      male 19.0
## 374
                                               Ringhini, Mr. Sante
                                                                      male 22.0
                                                                                     0
## 375
                                        Palsson, Miss. Stina Viola female 3.0
                                                                                     3
## 378
                                         Widener, Mr. Harry Elkins
                                                                      male 27.0
                                                                                     0
## 379
                                               Betros, Mr. Tannous
                                                                      male 20.0
## 380
                                       Gustafsson, Mr. Karl Gideon
                                                                      male 19.0
                                                                                     0
## 383
                                                Tikkanen, Mr. Juho
                                                                      male 32.0
                                                                                     0
## 385
                                            Plotcharsky, Mr. Vasil
                                                                      male
                                                                             NA
                                                                                     0
## 386
                                         Davies, Mr. Charles Henry
                                                                      male 18.0
## 387
                                  Goodwin, Master. Sidney Leonard
                                                                      male
                                                                            1.0
                                                                                     5
## 389
                                              Sadlier, Mr. Matthew
                                                                      male
                                                                                     0
## 393
                                                                                     2
                                     Gustafsson, Mr. Johan Birger
                                                                      male 28.0
## 396
                                               Johansson, Mr. Erik
                                                                      male 22.0
## 397
                                               Olsson, Miss. Elina female 31.0
                                                                                     0
## 398
                                           McKane, Mr. Peter David
                                                                      male 46.0
                                                                                     0
## 399
                                                  Pain, Dr. Alfred
                                                                      male 23.0
                                                                                     0
## 402
                                                   Adams, Mr. John
                                                                      male 26.0
## 403
                                          Jussila, Miss. Mari Aina female 21.0
                                                                                     1
## 404
                                   Hakkarainen, Mr. Pekka Pietari
                                                                      male 28.0
                                                                                     1
## 405
                                           Oreskovic, Miss. Marija female 20.0
## 406
                                                Gale, Mr. Shadrach
                                                                      male 34.0
                                                                                     1
## 407
                                 Widegren, Mr. Carl/Charles Peter
                                                                      male 51.0
                                                                                     0
## 409
                                Birkeland, Mr. Hans Martin Monsen
                                                                                     0
                                                                      male 21.0
## 410
                                                Lefebre, Miss. Ida female
                                                                                     3
## 411
                                                Sdycoff, Mr. Todor
                                                                      male
                                                                             NA
                                                                                     0
## 412
                                                   Hart, Mr. Henry
                                                                      male
```

```
## 414
                                   Cunningham, Mr. Alfred Fleming
## 416
                          Meek, Mrs. Thomas (Annie Louise Rowley) female
                                                                             NΑ
                                                                                     0
                                                                      male 30.0
## 419
                                       Matthews, Mr. William John
## 420
                                         Van Impe, Miss. Catharina female 10.0
                                                                                     0
## 421
                                            Gheorgheff, Mr. Stanio
                                                                      male
                                                                             NA
## 422
                                               Charters, Mr. David
                                                                      male 21.0
                                                                                     0
## 423
                                                Zimmerman, Mr. Leo
                                                                      male 29.0
## 424
          Danbom, Mrs. Ernst Gilbert (Anna Sigrid Maria Brogren) female 28.0
## 425
                                      Rosblom, Mr. Viktor Richard
                                                                      male 18.0
## 426
                                            Wiseman, Mr. Phillippe
                                                                      male
                                                                                     0
## 429
                                                  Flynn, Mr. James
                                                                      male
                                                                             NA
                                                                                     0
                                       Kallio, Mr. Nikolai Erland
## 434
                                                                      male 17.0
                                                                                     0
## 435
                                         Silvey, Mr. William Baird
                                                                      male 50.0
                                                                                     1
                             Ford, Miss. Doolina Margaret "Daisy" female 21.0
## 437
## 439
                                                 Fortune, Mr. Mark
                                                                      male 64.0
                                                                                     1
## 440
                           Kvillner, Mr. Johan Henrik Johannesson
                                                                      male 31.0
                                                                                     0
## 442
                                                   Hampe, Mr. Leon
                                                                      male 20.0
                                                                                     0
## 443
                                         Petterson, Mr. Johan Emil
                                                                      male 25.0
## 451
                                             West, Mr. Edwy Arthur
                                                                      male 36.0
                                                                                     1
## 452
                                  Hagland, Mr. Ingvald Olai Olsen
                                                                      male
                                                                             NΑ
## 453
                                  Foreman, Mr. Benjamin Laventall
                                                                      male 30.0
                                                                                     0
## 455
                                               Peduzzi, Mr. Joseph
                                                                      male
                                                                             NA
## 457
                                        Millet, Mr. Francis Davis
                                                                      male 65.0
                                                                                     0
## 460
                                             O'Connor, Mr. Maurice
                                                                      male
                                                                             NA
## 462
                                               Morley, Mr. William
                                                                      male 34.0
                                                                                     0
## 463
                                                 Gee, Mr. Arthur H
                                                                      male 47.0
## 464
                                     Milling, Mr. Jacob Christian
                                                                      male 48.0
                                                                                     0
## 465
                                                Maisner, Mr. Simon
                                                                      male
                                                                             NA
                                                                                     0
                                  Goncalves, Mr. Manuel Estanslas
## 466
                                                                      male 38.0
## 467
                                             Campbell, Mr. William
                                                                      male
                                                                             NA
## 468
                                        Smart, Mr. John Montgomery
                                                                      male 56.0
                                                                                     0
## 469
                                                Scanlan, Mr. James
                                                                      male
                                                                             NΑ
                                                                                     0
## 471
                                                 Keefe, Mr. Arthur
                                                                      male
                                                                             NA
## 472
                                                   Cacic, Mr. Luka
                                                                      male 38.0
                                                                                     0
## 475
                                      Strandberg, Miss. Ida Sofia female 22.0
## 476
                                      Clifford, Mr. George Quincy
                                                                      male
                                                                             NA
                                                                                     0
## 477
                                           Renouf, Mr. Peter Henry
                                                                      male 34.0
## 478
                                         Braund, Mr. Lewis Richard
                                                                      male 29.0
                                                                                     1
## 479
                                         Karlsson, Mr. Nils August
                                                                      male 22.0
## 481
                                   Goodwin, Master. Harold Victor
                                                                      male 9.0
                                                                                     5
## 482
                                 Frost, Mr. Anthony Wood "Archie"
                                                                      male
                                                                             NA
## 483
                                         Rouse, Mr. Richard Henry
                                                                      male 50.0
                                                                                     0
## 486
                                            Lefebre, Miss. Jeannie female
                                                                             NA
                                                                                     3
## 488
                                           Kent, Mr. Edward Austin
                                                                      male 58.0
                                                                                     0
## 489
                                    Somerton, Mr. Francis William
                                                                      male 30.0
## 491
                             Hagland, Mr. Konrad Mathias Reiersen
                                                                      male
                                                                             NA
                                                                                     1
## 492
                                               Windelov, Mr. Einar
                                                                      male 21.0
                                                                                     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
                                                                                     0
## 496
                                             Yousseff, Mr. Gerious
                                                                      male
                                                                             NΑ
                                                                                     0
## 498
                                  Shellard, Mr. Frederick William
                                                                      male
                                                                             NA
                 Allison, Mrs. Hudson J C (Bessie Waldo Daniels) female 25.0
## 499
                                                                                     1
## 500
                                                Svensson, Mr. Olof
                                                                      male 24.0
```

```
## 501
                                                  Calic, Mr. Petar
                                                                      male 17.0
                                               Canavan, Miss. Mary female 21.0
## 502
                                                                                     0
## 503
                                   O'Sullivan, Miss. Bridget Mary female
## 504
                                   Laitinen, Miss. Kristina Sofia female 37.0
                                                                                     0
## 506
                      Penasco y Castellana, Mr. Victor de Satode
                                                                      male 18.0
## 509
                                         Olsen, Mr. Henry Margido
                                                                      male 28.0
## 512
                                                 Webber, Mr. James
                                                                      male
                                                                             NA
                                                 Coleff, Mr. Satio
## 515
                                                                      male 24.0
                                                                                     0
                                     Walker, Mr. William Anderson
## 516
                                                                      male 47.0
                                                                                     Λ
## 518
                                                 Ryan, Mr. Patrick
                                                                      male
                                                                             NA
## 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
                                                                             NA
## 526
                                                Farrell, Mr. James
                                                                      male 40.5
                                                                                     0
## 528
                                                Farthing, Mr. John
                                                                      male
                                                                             NA
## 529
                                         Salonen, Mr. Johan Werner
                                                                      male 39.0
                                                                                     0
## 530
                                      Hocking, Mr. Richard George
                                                                      male 23.0
## 532
                                                 Toufik, Mr. Nakli
                                                                      male
                                                                             NA
                                                                                     0
## 533
                                              Elias, Mr. Joseph Jr
                                                                      male 17.0
## 535
                                               Cacic, Miss. Marija female 30.0
                                                                                     0
## 537
                                Butt, Major. Archibald Willingham
                                                                      male 45.0
## 539
                                         Risien, Mr. Samuel Beard
                                                                      male
                                                                             NΑ
                                                                                     0
## 542
                             Andersson, Miss. Ingeborg Constanzia female 9.0
## 543
                                Andersson, Miss. Sigrid Elisabeth female 11.0
## 545
                                       Douglas, Mr. Walter Donald
                                                                      male 50.0
## 546
                                     Nicholson, Mr. Arthur Ernest
                                                                      male 64.0
                                                                                     0
## 549
                                         Goldsmith, Mr. Frank John
                                                                      male 33.0
                                                                                     1
## 552
                                                                      male 27.0
                                      Sharp, Mr. Percival James R
## 553
                                              O'Brien, Mr. Timothy
                                                                      male
                                                                             NA
## 556
                                                Wright, Mr. George
                                                                      male 62.0
                                                                                     0
## 558
                                               Robbins, Mr. Victor
                                                                      male
                                                                             NA
                                                                                     0
## 561
                                          Morrow, Mr. Thomas Rowan
                                                                      male
                                                                             NA
                                                 Sivic, Mr. Husein
## 562
                                                                      male 40.0
                                                                                     0
## 563
                                       Norman, Mr. Robert Douglas
                                                                      male 28.0
                                                 Simmons, Mr. John
## 564
                                                                      male
                                                                             NA
                                                                                     0
## 565
                                   Meanwell, Miss. (Marion Ogden) female
## 566
                                              Davies, Mr. Alfred J
                                                                      male 24.0
                                                                                     2
## 567
                                              Stoytcheff, Mr. Ilia
                                                                      male 19.0
## 568
                                                                                     0
                      Palsson, Mrs. Nils (Alma Cornelia Berglund) female 29.0
## 569
                                               Doharr, Mr. Tannous
                                                                      male
## 575
                                     Rush, Mr. Alfred George John
                                                                      male 16.0
                                                                                     0
## 576
                                              Patchett, Mr. George
                                                                      male 19.0
                                                                                     0
## 579
                                 Caram, Mrs. Joseph (Maria Elias) female
                                                                             NA
## 583
                                       Downton, Mr. William James
                                                                      male 54.0
## 584
                                               Ross, Mr. John Hugo
                                                                      male 36.0
                                                                                     0
## 585
                                               Paulner, Mr. Uscher
                                                                      male
                                                                             NA
                                                                                     0
## 587
                                           Jarvis, Mr. John Denzil
                                                                      male 47.0
## 589
                                             Gilinski, Mr. Eliezer
                                                                      male 22.0
                                                                                     0
                                               Murdlin, Mr. Joseph
## 590
                                                                      male
                                                                             NA
                                                                                     0
## 591
                                              Rintamaki, Mr. Matti
                                                                      male 35.0
                                                                                     0
## 593
                                       Elsbury, Mr. William James
                                                                      male 47.0
## 594
                                                Bourke, Miss. Mary female
                                                                                     0
                                                                             NA
## 595
                                           Chapman, Mr. John Henry
                                                                      male 37.0
```

```
## 596
                                      Van Impe, Mr. Jean Baptiste
                                                                      male 36.0
                                                                      male 49.0
## 598
                                               Johnson, Mr. Alfred
                                                                                     0
## 599
                                                 Boulos, Mr. Hanna
                                                                      male
                                              Slabenoff, Mr. Petco
## 602
                                                                                     0
                                                                      male
                                                                             NΑ
## 603
                                        Harrington, Mr. Charles H
                                                                      male
                                                                             NA
## 604
                                        Torber, Mr. Ernst William
                                                                      male 44.0
## 606
                                    Lindell, Mr. Edvard Bengtsson
                                                                      male 36.0
## 607
                                                 Karaic, Mr. Milan
                                                                      male 30.0
## 611 Andersson, Mrs. Anders Johan (Alfrida Konstantia Brogren) female 39.0
## 612
                                             Jardin, Mr. Jose Neto
                                                                      male
                                                                                     0
## 614
                                                  Horgan, Mr. John
                                                                      male
                                                                             NA
                                                                                     0
## 615
                                  Brocklebank, Mr. William Alfred
                                                                      male 35.0
                                                                                     0
## 617
                                        Danbom, Mr. Ernst Gilbert
                                                                      male 34.0
## 618
                 Lobb, Mrs. William Arthur (Cordelia K Stanlick) female 26.0
## 620
                                                                      male 26.0
                                               Gavey, Mr. Lawrence
## 621
                                               Yasbeck, Mr. Antoni
                                                                      male 27.0
## 624
                                      Hansen, Mr. Henry Damsgaard
                                                                      male 21.0
                                                                                     0
## 625
                                      Bowen, Mr. David John "Dai"
                                                                      male 21.0
## 626
                                             Sutton, Mr. Frederick
                                                                      male 61.0
                                                                                     0
## 627
                                   Kirkland, Rev. Charles Leonard
                                                                      male 57.0
## 629
                                        Bostandyeff, Mr. Guentcho
                                                                      male 26.0
                                                                                     Λ
## 630
                                          O'Connell, Mr. Patrick D
                                                                      male
                                                                             NA
## 632
                                      Lundahl, Mr. Johan Svensson
                                                                      male 51.0
                                                                                     0
## 634
                                    Parr, Mr. William Henry Marsh
                                                                      male
                                                                             NA
## 635
                                                Skoog, Miss. Mabel female 9.0
## 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
                                                                      male
## 641
                                            Jensen, Mr. Hans Peder
                                                                      male 20.0
## 643
                                    Skoog, Miss. Margit Elizabeth female 2.0
                                                                                     3
## 647
                                                 Cor, Mr. Liudevit
                                                                      male 19.0
                                                                                     0
## 649
                                                Willey, Mr. Edward
                                                                      male
## 651
                                                 Mitkoff, Mr. Mito
                                                                      male
                                                                             NA
                                                                                     0
## 653
                                   Kalvik, Mr. Johannes Halvorsen
                                                                      male 21.0
## 655
                                     Hegarty, Miss. Hanora "Nora" female 18.0
                                                                                     0
## 656
                                        Hickman, Mr. Leonard Mark
                                                                      male 24.0
## 657
                                             Radeff, Mr. Alexander
                                                                      male
                                                                             NΑ
                                                                                     0
## 658
                                    Bourke, Mrs. John (Catherine) female 32.0
## 659
                                     Eitemiller, Mr. George Floyd
                                                                      male 23.0
## 660
                                       Newell, Mr. Arthur Webster
                                                                      male 58.0
## 662
                                                 Badt, Mr. Mohamed
                                                                      male 40.0
                                                                                     0
## 663
                                                                      male 47.0
                                       Colley, Mr. Edward Pomeroy
                                                                                     0
## 664
                                                  Coleff, Mr. Peju
                                                                      male 36.0
                                                                                     0
## 666
                                                Hickman, Mr. Lewis
                                                                      male 32.0
                                                                                     2
                                      Butler, Mr. Reginald Fenton
## 667
                                                                      male 25.0
                                                                                     0
## 668
                                       Rommetvedt, Mr. Knud Paust
                                                                      male
                                                                             NA
                                                                                     0
## 669
                                                   Cook, Mr. Jacob
                                                                      male 43.0
## 672
                                            Davidson, Mr. Thornton
                                                                      male 31.0
                                                                                     1
## 673
                                      Mitchell, Mr. Henry Michael
                                                                      male 70.0
                                                                                     0
## 675
                                       Watson, Mr. Ennis Hastings
                                                                      male
                                                                             NA
                                                                                     0
## 676
                                   Edvardsson, Mr. Gustaf Hjalmar
                                                                      male 18.0
                                                                                     0
## 677
                                    Sawyer, Mr. Frederick Charles
                                                                      male 24.5
                                                                                     0
## 679
                          Goodwin, Mrs. Frederick (Augusta Tyler) female 43.0
```

```
## 681
                                               Peters, Miss. Katie female
## 683
                                      Olsvigen, Mr. Thor Anderson
                                                                      male 20.0
                                                                                     0
                                      Goodwin, Mr. Charles Edward
## 684
                                                                      male 14.0
## 685
                                Brown, Mr. Thomas William Solomon
                                                                      male 60.0
                                                                                     1
## 686
                           Laroche, Mr. Joseph Philippe Lemercier
                                                                      male 25.0
## 687
                                                                      male 14.0
                                         Panula, Mr. Jaako Arnold
## 688
                                                 Dakic, Mr. Branko
                                                                      male 19.0
## 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
## 697
                                                  Kelly, Mr. James
                                                                      male 44.0
                                                                                     0
## 699
                                          Thayer, Mr. John Borland
                                                                      male 49.0
                                                                                     1
## 700
                         Humblen, Mr. Adolf Mathias Nicolai Olsen
                                                                      male 42.0
## 703
                                             Barbara, Miss. Saiide female 18.0
                                                                                     0
## 704
                                             Gallagher, Mr. Martin
                                                                      male 25.0
## 705
                                           Hansen, Mr. Henrik Juul
                                                                      male 26.0
## 706
                  Morley, Mr. Henry Samuel ("Mr Henry Marshall")
                                                                      male 39.0
## 712
                                                Klaber, Mr. Herman
                                                                      male
                                                                             NA
                                                                                     0
## 714
                                       Larsson, Mr. August Viktor
                                                                      male 29.0
## 715
                                             Greenberg, Mr. Samuel
                                                                      male 52.0
                                                                                     Λ
## 716
                      Soholt, Mr. Peter Andreas Lauritz Andersen
                                                                      male 19.0
## 719
                                               McEvoy, Mr. Michael
                                                                      male
                                                                             NΑ
                                                                                     0
## 720
                                     Johnson, Mr. Malkolm Joackim
                                                                      male 33.0
## 722
                                         Jensen, Mr. Svend Lauritz
                                                                      male 17.0
## 723
                                     Gillespie, Mr. William Henry
                                                                      male 34.0
## 724
                                           Hodges, Mr. Henry Price
                                                                      male 50.0
                                                                                     0
## 726
                                               Oreskovic, Mr. Luka
                                                                      male 20.0
                                                                                     0
## 729
                                  Bryhl, Mr. Kurt Arnold Gottfrid
                                                                      male 25.0
## 730
                                    Ilmakangas, Miss. Pieta Sofia female 25.0
## 732
                                          Hassan, Mr. Houssein G N
                                                                      male 11.0
                                                                                     0
## 733
                                              Knight, Mr. Robert J
                                                                      male
                                                                             NΑ
                                                                                     0
## 734
                                       Berriman, Mr. William John
                                                                      male 23.0
## 735
                                                                      male 23.0
                                     Troupiansky, Mr. Moses Aaron
                                                                                     0
## 736
                                              Williams, Mr. Leslie
                                                                      male 28.5
## 737
                          Ford, Mrs. Edward (Margaret Ann Watson) female 48.0
## 739
                                                Ivanoff, Mr. Kanio
                                                                      male
## 740
                                                Nankoff, Mr. Minko
                                                                      male
                                                                                     0
                                                                             NΑ
## 742
                                    Cavendish, Mr. Tyrell William
                                                                      male 36.0
## 744
                                                                      male 24.0
                                                 McNamee, Mr. Neal
## 746
                                     Crosby, Capt. Edward Gifford
                                                                      male 70.0
## 747
                                      Abbott, Mr. Rossmore Edward
                                                                      male 16.0
                                                                                     1
                                        Marvin, Mr. Daniel Warner
                                                                      male 19.0
## 749
                                                                                     1
## 750
                                           Connaghton, Mr. Michael
                                                                      male 31.0
                                                                                     0
## 753
                                 Vande Velde, Mr. Johannes Joseph
                                                                      male 33.0
## 754
                                                Jonkoff, Mr. Lalio
                                                                      male 23.0
                                                                                     0
## 757
                                     Carlsson, Mr. August Sigfrid
                                                                      male 28.0
                                                                                     0
## 758
                                          Bailey, Mr. Percy Andrew
                                                                      male 18.0
                                                                                     0
## 759
                                     Theobald, Mr. Thomas Leonard
                                                                      male 34.0
                                                                                     0
## 761
                                                Garfirth, Mr. John
                                                                      male
                                                                             NA
                                                                                     0
## 762
                                   Nirva, Mr. Iisakki Antino Aijo
                                                                      male 41.0
                                                                                     0
## 765
                                            Eklund, Mr. Hans Linus
                                                                      male 16.0
                                                                                     0
## 767
                                         Brewe, Dr. Arthur Jackson
                                                                      male
                                                                                     0
                                                                             NΑ
## 768
                                                Mangan, Miss. Mary female 30.5
```

```
## 769
                                               Moran, Mr. Daniel J
                                                                      male
## 770
                                 Gronnestad, Mr. Daniel Danielsen
                                                                      male 32.0
                                                                                     0
## 771
                                            Lievens, Mr. Rene Aime
                                                                      male 24.0
## 772
                                           Jensen, Mr. Niels Peder
                                                                      male 48.0
                                                                                     0
## 773
                                                 Mack, Mrs. (Mary) female 57.0
## 774
                                                   Elias, Mr. Dibo
                                                                      male
                                                                                     0
                                                                              NA
## 776
                          Myhrman, Mr. Pehr Fabian Oliver Malkolm
                                                                      male 18.0
## 777
                                                  Tobin, Mr. Roger
                                                                      male
                                                                              NΑ
                                                                                     0
## 779
                                           Kilgannon, Mr. Thomas J
                                                                      male
                                                                              NA
                                                                                     0
## 783
                                            Long, Mr. Milton Clyde
                                                                      male 29.0
                                                                                     0
## 784
                                            Johnston, Mr. Andrew G
                                                                      male
                                                                              NA
                                                                                     1
## 785
                                                  Ali, Mr. William
                                                                      male 25.0
                                                                                     0
## 786
                               Harmer, Mr. Abraham (David Lishin)
                                                                      male 25.0
                                                                                     0
## 788
                                         Rice, Master. George Hugh
                                                                      male 8.0
## 790
                                          Guggenheim, Mr. Benjamin
                                                                      male 46.0
## 791
                                          Keane, Mr. Andrew "Andy"
                                                                       male
                                                                                     0
## 792
                                               Gaskell, Mr. Alfred
                                                                      male 16.0
                                                                                     0
## 793
                                           Sage, Miss. Stella Anna female
## 794
                                          Hoyt, Mr. William Fisher
                                                                      male
                                                                              NA
                                                                                     0
## 795
                                             Dantcheff, Mr. Ristiu
                                                                      male 25.0
## 796
                                                Otter, Mr. Richard
                                                                      male 39.0
                                                                                     Λ
## 799
                                      Ibrahim Shawah, Mr. Yousseff
                                                                       male 30.0
## 800
            Van Impe, Mrs. Jean Baptiste (Rosalie Paula Govaert) female 30.0
                                                                                     1
## 801
                                              Ponesell, Mr. Martin
                                                                      male 34.0
## 806
                                         Johansson, Mr. Karl Johan
                                                                      male 31.0
                                                                                     0
## 807
                                            Andrews, Mr. Thomas Jr
                                                                      male 39.0
                                                                                     0
## 808
                                  Pettersson, Miss. Ellen Natalia female 18.0
                                                                                     0
## 809
                                                 Meyer, Mr. August
                                                                      male 39.0
                                                                                     0
## 811
                                                                      male 26.0
                                                                                     0
                                            Alexander, Mr. William
## 812
                                                 Lester, Mr. James
                                                                      male 39.0
                                                                                     0
                                         Slemen, Mr. Richard James
## 813
                                                                      male 35.0
                                                                                     0
## 814
                               Andersson, Miss. Ebba Iris Alfrida female 6.0
                                                                                     4
## 815
                                        Tomlin, Mr. Ernest Portage
                                                                       male 30.5
## 816
                                                  Fry, Mr. Richard
                                                                      male
                                                                              NA
                                                                                     0
## 817
                                      Heininen, Miss. Wendla Maria female 23.0
                                                                                     0
## 818
                                                Mallet, Mr. Albert
                                                                      male 31.0
## 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
## 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
## 837
                                                  Pasic, Mr. Jakob
                                                                      male 21.0
                                                                                     0
## 838
                                               Sirota, Mr. Maurice
                                                                      male
                                                                              NA
                                                                                     0
## 841
                                       Alhomaki, Mr. Ilmari Rudolf
                                                                       male 20.0
                                                                                     0
## 842
                                          Mudd, Mr. Thomas Charles
                                                                      male 16.0
                                                                                     0
## 844
                                        Lemberopolous, Mr. Peter L
                                                                       male 34.5
                                                                                     0
## 845
                                                                      male 17.0
                                               Culumovic, Mr. Jeso
                                                                                     0
## 846
                                               Abbing, Mr. Anthony
                                                                      male 42.0
                                                                                     0
## 847
                                          Sage, Mr. Douglas Bullen
                                                                      male
                                                                                     8
                                                                              NA
## 848
                                                Markoff, Mr. Marin
                                                                      male 35.0
```

```
## 849
                                                  Harper, Rev. John
                                                                       male 28.0
## 851
                          Andersson, Master. Sigvard Harald Elias
                                                                       male 4.0
                                                                                      4
## 852
                                                Svensson, Mr. Johan
                                                                       male 74.0
## 853
                                           Boulos, Miss. Nourelain female 9.0
## 855
                    Carter, Mrs. Ernest Courtenay (Lilian Hughes) female 44.0
## 860
                                                   Razi, Mr. Raihed
                                                                       male
                                                                              NA
                                                                                      0
## 861
                                           Hansen, Mr. Claus Peter
                                                                       male 41.0
## 862
                                       Giles, Mr. Frederick Edward
                                                                       male 21.0
                                                                                      1
## 864
                                 Sage, Miss. Dorothy Edith "Dolly" female
                                                                               NA
                                                                                      8
## 865
                                                                                      0
                                            Gill, Mr. John William
                                                                       male 24.0
## 868
                              Roebling, Mr. Washington Augustus II
                                                                       male 31.0
## 869
                                       van Melkebeke, Mr. Philemon
                                                                       male
                                                                               NA
                                                                                      0
## 871
                                                  Balkic, Mr. Cerin
                                                                       male 26.0
                                                                                      0
## 873
                                          Carlsson, Mr. Frans Olof
                                                                       male 33.0
## 874
                                       Vander Cruyssen, Mr. Victor
                                                                       male 47.0
## 877
                                     Gustafsson, Mr. Alfred Ossian
                                                                       male 20.0
## 878
                                               Petroff, Mr. Nedelio
                                                                       male 19.0
                                                                                      0
## 879
                                                 Laleff, Mr. Kristo
                                                                       male
                                                                       male 33.0
## 882
                                                 Markun, Mr. Johann
                                                                                      0
## 883
                                      Dahlberg, Miss. Gerda Ulrika female 22.0
## 884
                                     Banfield, Mr. Frederick James
                                                                       male 28.0
                                                                                      0
## 885
                                            Sutehall, Mr. Henry Jr
                                                                       male 25.0
## 886
                             Rice, Mrs. William (Margaret Norton) female 39.0
## 887
                                             Montvila, Rev. Juozas
                                                                       male 27.0
## 889
                         Johnston, Miss. Catherine Helen "Carrie" female
## 891
                                               Dooley, Mr. Patrick
                                                                       male 32.0
##
                          Ticket
                                      Fare
                                                  Cabin Embarked
       Parch
## 1
           0
                       A/5 21171
                                    7.2500
                                                                S
## 5
           0
                                                                S
                          373450
                                    8.0500
## 6
           0
                          330877
                                    8.4583
                                                                Q
## 7
           0
                           17463
                                   51.8625
                                                    E46
                                                                S
## 8
           1
                          349909
                                   21.0750
                                                                S
                                                                S
## 13
           0
                       A/5. 2151
                                    8.0500
## 14
           5
                          347082
                                   31.2750
                                                                S
                                                                S
## 15
           0
                          350406
                                    7.8542
## 17
           1
                          382652
                                   29.1250
                                                                Q
## 19
           0
                          345763
                                   18.0000
                                                                S
## 21
           0
                          239865
                                   26.0000
                                                                S
## 25
           1
                          349909
                                   21.0750
                                                                S
                                                                C
## 27
           0
                                    7.2250
                            2631
## 28
                           19950 263.0000 C23 C25 C27
                                                                S
## 30
           0
                          349216
                                    7.8958
                                                                S
## 31
                        PC 17601
                                                                C
           0
                                   27.7208
## 34
           0
                                                                S
                      C.A. 24579
                                   10.5000
## 35
                        PC 17604
                                                                C
           0
                                   82.1708
                                                                S
## 36
           0
                          113789
                                   52.0000
                                                                S
## 38
           0
                      A./5. 2152
                                    8.0500
## 39
                                                                S
           0
                          345764
                                   18.0000
## 41
           0
                            7546
                                    9.4750
                                                                S
                                                                S
## 42
           0
                           11668
                                   21.0000
## 43
           0
                                    7.8958
                                                                C
                          349253
                                                                S
## 46
           0
                 S.C./A.4. 23567
                                    8.0500
## 47
           0
                          370371
                                   15.5000
                                                                Q
                                                                C
## 49
           0
                            2662
                                   21.6792
```

##	50	0	349237	17.8000		S
##	51	1	3101295	39.6875		S
##	52	0	A/4. 39886	7.8000		S
##	55	1	113509	61.9792	B30	C
##	58	0	2697	7.2292		С
##	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					S
##		0	315151	8.6625		
##	71	0	C.A. 33111	10.5000		S
##	72	2	CA 2144	46.9000		S
##	73	0	S.O.C. 14879	73.5000		S
##	74	0	2680	14.4542		C
##	76	0	348123	7.6500	F G73	S
##	77	0	349208	7.8958		S
##	78	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		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	0110	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
			370369			
##	117	0		7.7500		Q
##	118	0	11668	21.0000	DEC DCC	S
##	119	1	PC 17558		B58 B60	C
##	120	2	347082	31.2750		S
##	121	0	S.O.C. 14879	73.5000		S
##	4 * 14 1	0	A4. 54510	8.0500		S
	122			00 000		_
##	123	0	237736	30.0708		C
## ## ##				30.0708 77.2875 7.7500	D26	C S Q

шш	120	^	247061	C 0750		a
	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	a	C
	138	0	113803	53.1000	C123	S
	139	0	7534	9.2167		S
	140	0	PC 17593	79.2000	B86	C
##	141	2	2678	15.2458		C
##	144	0	365222	6.7500		Q
	145	0	231945	11.5000		S
##	146	1	C.A. 33112	36.7500		S
##	148	2	W./C. 6608	34.3750		S
##	149	2	230080	26.0000	F2	S
##	150	0	244310	13.0000		S
##	151	0	S.O.P. 1166	12.5250		S
##	153	0	A.5. 11206	8.0500		S
	154	2	A/5. 851	14.5000		S
	155	0	Fa 265302	7.3125		S
	156	1	PC 17597	61.3792		C
	158	0	SOTON/OQ 392090	8.0500		S
	159	0	315037	8.6625		S
	160	2	CA. 2343	69.5500		S
	161	1	371362	16.1000		S
	163	0	347068	7.7750		S
	164	0	315093	8.6625		S
	165	1	3101295	39.6875		S
	168	4	347088	27.9000		S
	169	0	PC 17318	25.9250		S
	170	0	1601	56.4958		S
	171	0	111240	33.5000	B19	S
	172	1	382652	29.1250		Q
	174	0	STON/O 2. 3101280	7.9250		S
##	175	0	17764	30.6958	A7	C
##	176	1	350404	7.8542		S
	177	1	4133	25.4667		S
##	178	0	PC 17595	28.7125	C49	C
##	179	0	250653	13.0000		S
##	180	0	LINE	0.0000		S
##	181	2	CA. 2343	69.5500		S
##	182	0	SC/PARIS 2131	15.0500		C
##	183	2	347077	31.3875		S
##	186	0	113767	50.0000	A32	S
##	189	1	364849	15.5000		Q
##	190	0	349247	7.8958		S
##	192	0	28424	13.0000		S
##	197	0	368703	7.7500		Q
##	198	1	4579	8.4042		S
##	200	0	248747	13.0000		S
##	201	0	345770	9.5000		S
	202	2	CA. 2343	69.5500		S
##	203	0	3101264	6.4958		S
##	204	0	2628	7.2250		С

##	206 207 211	1 0 0	347054 3101278 SOTON/O.Q. 3101311	10.4625 15.8500 7.0500	G6	s s s
	213	0	A/5 21174	7.2500		S
	214	0	250646	13.0000		S
##	215	0	367229	7.7500		Q
##	218	0	243847	27.0000		S
##	220	0	W/C 14208	10.5000		S
##	222	0	220367	13.0000		S
##	223	0	21440	8.0500		S
##	224	0	349234	7.8958		S
##	226	0	PP 4348	9.3500		S
##	228	0	A/5 21173	7.2500		S
##	229	0	236171	13.0000		S
##	230	1	4133	25.4667		S
##	232	0	347067	7.7750		S
##	233	0	237442	13.5000		S
##	235	0	C.A. 29566	10.5000		S
	236	0	W./C. 6609	7.5500		S
	237	0	26707	26.0000		S
	239	0	28665	10.5000		S
	240	0	SCO/W 1585	12.2750		S
	241	0	2665	14.4542		C
	243	0	W./C. 14263	10.5000		S
	244	0	STON/O 2. 3101275	7.1250		S
	245 246	0	2694 19928	7.2250 90.0000	C78	C
	247	0	347071	7.7750	078	Q S
	250	0	244252	26.0000		s S
	251	0	362316	7.2500		S
	252	1	347054	10.4625	G6	S
	253	0	113514	26.5500	C87	S
	254	0	A/5. 3336	16.1000	001	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		C
	288	0	349206	7.8958	_	S
	293	0	SC/Paris 2163	12.8750	D	C
	294	0	349236	8.8500		S
##	295	0	349233	7.8958		S

##	296	0	PC 17612	27.7208		C
##	297	0	2693	7.2292		C
##	298	2	113781	151.5500	C22 C26	S
##	303	0	LINE	0.0000		S
##	305	0	A/5 2466	8.0500		S
##	309	0	P/PP 3381	24.0000		С
##	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				C1 0 4	S
		0	113043	28.5000	C124	
	333	1	PC 17582		C91	S
	334	0	345764	18.0000		S
	336	0	349225	7.8958	<b>GO</b>	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		C
	354	0	349237	17.8000		S
##	355	0	2647	7.2250		C
##	356	0	345783	9.5000		S
##	358	0	237671	13.0000		S
##	361	4	347088	27.9000		S
##	362	0	SC/PARIS 2167	27.7208		C
##	363	1	2691	14.4542		C
##	364	0	SOTON/O.Q. 3101310	7.0500		S
##	365	0	370365	15.5000		Q
##	366	0	C 7076	7.2500		S
##	372	0	3101267	6.4958		S
##	373	0	323951	8.0500		S
##	374	0	PC 17760	135.6333		C
##	375	1	349909	21.0750		S
##	378	2	113503	211.5000	C82	C
##	379	0	2648	4.0125		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	7.8750		S
	424 425	1	347080	14.4000		S S
		1	370129 A/4. 34244	20.2125 7.2500		s S
	426 429	0	364851			
	429	0		7.7500		Q S
	435	0	STON/O 2. 3101274 13507	7.1250 55.9000	E44	s S
	437	2	W./C. 6608	34.3750	E44	S
	439	4			C23 C25 C27	S
	440	0	C.A. 18723	10.5000	023 023 021	S
	442	0	345769	9.5000		S
	443	0	347076	7.7750		S
	451	2	C.A. 34651	27.7500		S
	452	0	65303	19.9667		S
	453	0	113051	27.7500	C111	C
	455	0	A/5 2817	8.0500	0111	S
	457	0	13509	26.5500	E38	S
	460	0	371060	7.7500	200	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		SOTON/O.Q. 3101306	7.0500		S
	467	0	239853	0.0000		S
	468	0	113792	26.5500		S
	469	0	36209	7.7250		Q
	471	0	323592	7.2500		S
	472	0	315089	8.6625		S
##	475	0	7553	9.8375		S
##	476	0	110465	52.0000	A14	S
	477	0	31027	21.0000		S
	478	0	3460	7.0458		S
	479	0	350060	7.5208		S
	481	2	CA 2144	46.9000		S
##	482	0	239854	0.0000		S
##	483	0	A/5 3594	8.0500		S
##	486	1	4133	25.4667		S
##	488	0	11771	29.7000	B37	C

##	489	0	A.5. 18509	8.0500		S
	491	0		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			S
	502	0	364846	7.7500		Q
	503	0	330909	7.6292		
	503	0	4135	9.5875		Q S
	504		PC 17758		C65	C
	509	0	C 4001	22.5250	000	S
	512	0				S
	515	0	SOTON/OQ 3101316	8.0500		s S
	516	0	349209		DAG	S
	518	0		34.0208	D46	
		0	371110			Q S
	520	0	349242	7.8958		
	522	0	349252	7.8958		S
	523	0	2624	7.2250		C
	525	0	2700	7.2292		C
	526	0	367232	7.7500	ao F	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	700	S
	537	0	113050	26.5500	B38	S
	539	0	364498	14.5000		S
	542	2	347082			S
	543	2	347082	31.2750	200	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	440	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		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	5-0	S
	626	0	36963	32.3208	D50	S
	627	0	219533	12.3500		Q
	629	0	349224	7.8958		S
	630	0	334912	7.7333		Q
	632	0	347743	7.0542		S
	634	0	112052	0.0000		S
	635	2	347088	27.9000		S
##	637	0	STON/O 2. 3101292	7.9250		S
	638	1	C.A. 31921	26.2500		S
	639	5	3101295	39.6875		S
	640	0	376564	16.1000		S
	641	0	350050	7.8542		S
	643	0	347088 349231	27.9000		S
	647			7.8958		S
	649 651	0	S.O./P.P. 751 349221	7.5500 7.8958		S S
	653	0	8475	8.4333		S
	655	0	365226	6.7500		
	656	0	S.O.C. 14879	73.5000		Q S
	657	0	349223	73.5000		S
	658	1	364849	15.5000		Q Q
	659	0	29751	13.0000		ų S
	660	2	35273		D48	C
	662	0	2623	7.2250	<i>υ</i> 40	C
##	663	0		25.5875	E58	S
	664	0	5727 349210	7.4958	EOO	S
##	004	U	349210	1.4908		۵

##	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	CCO	S
	699	1		110.8833	C68	C
	700 703	0	348121 2691	7.6500 14.4542	F G63	S C
	703	1 0	36864	7.7417		
	704	0	350025	7.8542		Q S
	706	0	250655	26.0000		S
	712	0	113028	26.5500	C124	S
	714	0	7545	9.4833	0124	S
	715	0	250647	13.0000		S
	716	0	348124	7.6500	F G73	S
	719	0	36568	15.5000	1 470	Q
	720	0	347062	7.7750		S
	722	0	350048	7.0542		S
	723	0	12233	13.0000		S
	724	0	250643	13.0000		S
	726	0	315094	8.6625		S
	729	0	236853	26.0000		S
	730	0	STON/02. 3101271	7.9250		S
	732	0	2699	18.7875		C
	733	0	239855	0.0000		S
##	734	0	28425	13.0000		S
##	735	0	233639	13.0000		S
##	736	0	54636	16.1000		S
##	737	3	W./C. 6608	34.3750		S
##	739	0	349201	7.8958		S
##	740	0	349218	7.8958		S
##	742	0	19877	78.8500	C46	S
##	744	0	376566	16.1000		S
##	746	1	WE/P 5735	71.0000	B22	S
##	747	1	C.A. 2673	20.2500		S
##	749	0	113773	53.1000	D30	S
##	750	0	335097	7.7500		Q

##	753	0	2/5790	0 5000		c
	754	0	345780 349204	9.5000 7.8958		S S
	757	0	350042	7.7958		S
	758	0	29108	11.5000		S
	759	0	363294	8.0500		S
	761		358585	14.5000		S
	762	0		7.1250		s S
		0	SOTON/02 3101272			s S
	765	0	347074 112379	7.7750		S C
	767 768	0		39.6000 7.7500		
	769		364850			Q
		0	371110	24.1500		Q
	770	0	8471	8.3625		S S
	771	0	345781	9.5000		
	772	0	350047	7.8542	F77	S
	773	0	S.O./P.P. 3	10.5000	E77	S
	774	0	2674	7.2250		C
	776	0	347078	7.7500	E20	S
	777	0	383121	7.7500	F38	Q
	779	0	36865	7.7375	De	Q
	783	0	113501	30.0000	D6	S
	784	2	W./C. 6607	23.4500		S
	785	0	SOTON/O.Q. 3101312	7.0500		S
	786	0	374887	7.2500		S
	788	1	382652	29.1250	DOO DO4	Q
	790	0	PC 17593	79.2000	B82 B84	C
	791	0	12460	7.7500		Q
	792	0	239865	26.0000		S
	793	2	CA. 2343	69.5500		S
	794	0	PC 17600	30.6958		C
	795	0	349203	7.8958		S
	796	0	28213	13.0000		S
	799	0	2685	7.2292		C
	800	1	345773	24.1500		S
	801	0	250647	13.0000		S
	806	0	347063	7.7750	100	S
	807	0	112050	0.0000	A36	S
	808	0	347087	7.7750		S
	809	0	248723	13.0000		S
	811	0	3474	7.8875		S
	812	0	A/4 48871	24.1500 10.5000		S S
	813	0	28206			
	814 815	2	347082 364499	31.2750		S
		0		8.0500 0.0000	P100	S S
	816	0	112058		B102	s S
	817	0	STON/02. 3101290	7.9250		
	818	1	S.C./PARIS 2079	37.0042		C
	819	0	C 7075	6.4500		S
	820	2	347088	27.9000		S S
	823		19972 3101295	0.0000		S S
	825	1		39.6875		
	826 827	0	368323	6.9500		Q S
	827	0	1601	56.4958		S C
	833	0	2671	7.2292		S
##	834	0	347468	7.8542		۵

```
S
## 835
                              2223
                                     8.3000
## 837
            0
                                     8.6625
                                                                  S
                           315097
                                                                  S
## 838
            0
                           392092
                                     8.0500
                SOTON/02 3101287
                                                                  S
## 841
            0
                                     7.9250
## 842
            0
                      S.O./P.P. 3
                                     10.5000
                                                                  S
## 844
            0
                              2683
                                                                  C
                                     6.4375
## 845
                           315090
                                                                  S
            0
                                     8.6625
## 846
                                                                  S
            0
                        C.A. 5547
                                     7.5500
## 847
            2
                         CA. 2343
                                     69.5500
                                                                  S
## 848
                                                                  С
            0
                           349213
                                     7.8958
## 849
            1
                           248727
                                    33.0000
                                                                  S
                                                                  S
## 851
            2
                           347082
                                    31.2750
## 852
            0
                           347060
                                     7.7750
                                                                  S
                                                                  C
## 853
                              2678
            1
                                    15.2458
## 855
                            244252
                                     26.0000
                                                                  S
            0
## 860
            0
                              2629
                                     7.2292
                                                                  C
## 861
                           350026
                                                                  S
            0
                                    14.1083
                                                                  S
## 862
            0
                             28134
                                    11.5000
## 864
                         CA. 2343
                                    69.5500
                                                                  S
            2
                                                                  S
## 865
            0
                           233866
                                    13.0000
## 868
            0
                         PC 17590
                                    50.4958
                                                      A24
                                                                  S
## 869
            0
                           345777
                                     9.5000
                                                                  S
## 871
                           349248
                                     7.8958
                                                                  S
            0
## 873
                                     5.0000 B51 B53 B55
                                                                  S
            0
                               695
                                                                  S
## 874
                                     9.0000
            0
                           345765
## 877
            0
                              7534
                                     9.8458
                                                                  S
## 878
            0
                           349212
                                     7.8958
                                                                  S
## 879
                           349217
                                     7.8958
                                                                  S
            0
                                                                  S
## 882
            0
                           349257
                                     7.8958
## 883
            0
                              7552
                                    10.5167
                                                                  S
## 884
            0
                C.A./SOTON 34068
                                     10.5000
                                                                  S
## 885
            0
                 SOTON/OQ 392076
                                     7.0500
                                                                  S
                                                                  Q
## 886
            5
                            382652
                                    29.1250
## 887
            0
                                                                  S
                           211536
                                    13.0000
                                                                  S
## 889
            2
                       W./C. 6607
                                     23.4500
## 891
            0
                           370376
                                     7.7500
                                                                   Q
```

## head(Survived)

```
##
      PassengerId Survived Pclass
## 2
                 2
                          1
                                  1
## 3
                 3
                          1
                                  3
## 4
                 4
                          1
                                  1
                 9
## 9
                          1
                                  3
## 10
                10
                          1
                                  2
## 11
                11
                          1
                                  3
##
                                                                 Sex Age SibSp Parch
                                                        Name
## 2
      Cumings, Mrs. John Bradley (Florence Briggs Thayer) female
                                                                                    0
## 3
                                     Heikkinen, Miss. Laina female
                                                                              0
## 4
             Futrelle, Mrs. Jacques Heath (Lily May Peel) female
                                                                      35
                                                                                    0
                                                                              1
## 9
        Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg) female
                                                                                    2
                                                                      27
                                                                              0
## 10
                       Nasser, Mrs. Nicholas (Adele Achem) female
                                                                                    0
## 11
                           Sandstrom, Miss. Marguerite Rut female
                                                                                    1
##
                 Ticket
                           Fare Cabin Embarked
## 2
              PC 17599 71.2833
                                   C85
                                               C
```

```
## 3 STON/O2. 3101282 7.9250 S
## 4 113803 53.1000 C123 S
## 9 347742 11.1333 S
## 10 237736 30.0708 C
## 11 PP 9549 16.7000 G6 S
head(didNotSurvived)
## PassengerId Survived Pclass
```

```
##
      PassengerId Survived Pclass
                                                              Name Sex Age SibSp
## 1
                1
                          0
                                          Braund, Mr. Owen Harris male
## 5
                5
                          0
                                 3
                                         Allen, Mr. William Henry male
                                                                         35
## 6
                6
                         0
                                 3
                                                 Moran, Mr. James male
                                                                                 0
## 7
                7
                         0
                                                                                 0
                                 1
                                          McCarthy, Mr. Timothy J male
                                                                         54
## 8
                8
                          0
                                 3 Palsson, Master. Gosta Leonard male
## 13
               13
                          0
                                 3 Saundercock, Mr. William Henry male
               Ticket
                         Fare Cabin Embarked
##
      Parch
## 1
          0 A/5 21171 7.2500
## 5
               373450 8.0500
                                            S
               330877 8.4583
## 6
                                            Q
          0
## 7
          0
                17463 51.8625
                                 E46
                                            S
## 8
               349909 21.0750
                                            S
          1
          0 A/5. 2151 8.0500
                                            S
## 13
```

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)

a. describe what is the dataset all about.

 $\#The\ dataset\ provided\ appears\ to\ be\ related\ to\ breast\ cancer\ and\ contains\ various\ features\ that\ might\ b$ 

```
library(readr)
library(rcompanion)
breastcancer_wisconsin <- read_csv("breastcancer_wisconsin.csv",col_types = cols(</pre>
  id = col double(),
  clump_thickness = col_double(),
  size_uniformity = col_double(),
  shape_uniformity = col_double(),
  marginal_adhesion = col_double(),
  epithelial_size = col_double(),
  bare_nucleoli = col_character(),
  bland_chromatin = col_double(),
  normal_nucleoli = col_double(),
  mitoses = col_double(),
  class = col_double()
))
breastcancer_wisconsin
```

```
## # A tibble: 699 x 11
##
           id clump_thickness size_uniformity shape_uniformity marginal_adhesion
##
        <dbl>
                         <dbl>
                                         <dbl>
                                                           <dbl>
                                                                              <dbl>
##
  1 1000025
                             5
                                                               1
                                                                                  1
## 2 1002945
                             5
                                              4
                                                                4
                                                                                  5
## 3 1015425
                             3
                                              1
                                                                1
                                                                                  1
```

```
## 4 1016277
                                                                                 1
## 5 1017023
                            4
                                             1
                                                                                 3
                                                              1
## 6 1017122
                            8
                                            10
                                                             10
                                                                                 8
## 7 1018099
                            1
                                             1
                                                              1
                                                                                 1
## 8 1018561
                            2
                                             1
                                                              2
                                                                                 1
## 9 1033078
                            2
                                             1
                                                              1
                                                                                 1
## 10 1033078
## # i 689 more rows
## # i 6 more variables: epithelial_size <dbl>, bare_nucleoli <chr>,
       bland_chromatin <dbl>, normal_nucleoli <dbl>, mitoses <dbl>, class <dbl>
\#d.1
clump_thickness <- sd(breastcancer_wisconsin$clump_thickness) / sqrt(length(breastcancer_wisconsin$clum
cat("d.1 Standard Error of the Mean for Clump Thickness:", clump_thickness, "\n")
## d.1 Standard Error of the Mean for Clump Thickness: 0.1065011
# d.2
marginal_adhesion <- sd(breastcancer_wisconsin$marginal_adhesion) / mean(breastcancer_wisconsin$margina
cat("d.2 Coefficient of Variability for Marginal Adhesion:", marginal adhesion, "%\n")
## d.2 Coefficient of Variability for Marginal Adhesion: 101.7283 %
values bare nuclei <- sum(is.na(breastcancer wisconsin$bare nucleoli))</pre>
cat("d.3 Number of Null Values in Bare Nuclei:", values_bare_nuclei, "\n")
## d.3 Number of Null Values in Bare Nuclei: 15
# d.4
mean bland chromatin <- mean(breastcancer wisconsin$bland chromatin)
mean_bland_chromatin
## [1] 3.437768
sd_bland_chromatin <- sd(breastcancer_wisconsin$bland_chromatin)</pre>
cat("d.4 Mean for Bland Chromatin:", mean_bland_chromatin, "\n")
## d.4 Mean for Bland Chromatin: 3.437768
       Standard Deviation for Bland Chromatin: ", sd_bland_chromatin, "\n")
##
      Standard Deviation for Bland Chromatin: 2.438364
# d.5
uniformity of cell shape <- t.test(breastcancer wisconsin$shape uniformity, conf.level = 0.95)$conf.int
cat("d.5 Confidence Interval for the Mean of Uniformity of Cell Shape:", uniformity_of_cell_shape, "\n"
## d.5 Confidence Interval for the Mean of Uniformity of Cell Shape: 2.986741 3.428138
  d. How many attributes?
#There are 11 attributes in the data set.
  e. Find the percentage of respondents who are malignant. Interpret the results
percentage_malignant <- (sum(breastcancer_wisconsin$class == "malignant") / nrow(breastcancer_wisconsin)</pre>
cat("The percentage of respondents who are malignant are: ",percentage_malignant,"%")
## The percentage of respondents who are malignant are: 0 \%
```

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")
data("abalone")
head(abalone)
     Type LongestShell Diameter Height WholeWeight ShuckedWeight VisceraWeight
##
## 1
                  0.455
                            0.365
                                   0.095
                                               0.5140
                                                               0.2245
                                                                              0.1010
## 2
                  0.350
                            0.265
                                               0.2255
                                                               0.0995
                                                                              0.0485
        М
                                   0.090
## 3
        F
                  0.530
                            0.420
                                   0.135
                                               0.6770
                                                               0.2565
                                                                              0.1415
## 4
        М
                  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
        Ι
                  0.425
                            0.300 0.095
                                               0.3515
                                                               0.1410
                                                                              0.0775
##
     ShellWeight Rings
## 1
           0.150
                     15
           0.070
                      7
## 2
## 3
           0.210
                      9
## 4
           0.155
                     10
           0.055
## 5
                      7
## 6
           0.120
                      8
summary(abalone)
               LongestShell
                                  Diameter
                                                      Height
                                                                     WholeWeight
##
    Type
##
    F:1307
              Min.
                      :0.075
                                       :0.0550
                                                         :0.0000
                                                                    Min.
                                                                            :0.0020
                               Min.
                                                  Min.
```

```
##
    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
##
    ShuckedWeight
                      VisceraWeight
                                          ShellWeight
                                                               Rings
##
    Min.
            :0.0010
                      Min.
                              :0.0005
                                        Min.
                                                 :0.0015
                                                                   : 1.000
                                                           Min.
##
    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
library(xlsx)
```