

Rworksheet_Basultin#5a

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```
install.packages("AppliedPredictiveModeling")

## Installing package into '/cloud/lib/x86_64-pc-linux-gnu-library/4.3'
## (as 'lib' is unspecified)

install.packages("Hmisc")

## Installing package into '/cloud/lib/x86_64-pc-linux-gnu-library/4.3'
## (as 'lib' is unspecified)

install.packages("pastecs")

## Installing package into '/cloud/lib/x86_64-pc-linux-gnu-library/4.3'
## (as 'lib' is unspecified)

#1.
student <- c(1, 2, 3, 4, 5, 6, 7, 8, 9, 10)
pre_test <- c(55, 54, 47, 57, 51, 61, 57, 54, 63, 58)
post_test <- c(61, 60, 56, 63, 56, 63, 59, 56, 62, 61)

StudentScore <- data.frame(Student = student, Pre_Test = pre_test, Post_Test = post_test)
print(StudentScore)

##      Student Pre_Test Post_Test
## 1         1      55         61
## 2         2      54         60
## 3         3      47         56
## 4         4      57         63
## 5         5      51         56
## 6         6      61         63
## 7         7      57         59
## 8         8      54         56
## 9         9      63         62
## 10        10      58         61

#a
if (!requireNamespace("Hmisc", quietly = TRUE)) {
  install.packages("Hmisc")
}

if (!requireNamespace("pastecs", quietly = TRUE)) {
  install.packages("pastecs")
}

library(Hmisc)
```

```
##
## Attaching package: 'Hmisc'

## The following objects are masked from 'package:base':
##
##      format.pval, units

library(pastecs)

#2.
# Your data
fertilizer_levels <- c(10, 10, 10, 20, 20, 50, 10, 20, 10, 50, 20, 50, 20, 10)

# Convert to an ordered factor
ordered_fertilizer <- factor(fertilizer_levels, levels = c(10, 20, 50), ordered = TRUE)

# Print the result
print("Original Data:")

## [1] "Original Data:"
print(fertilizer_levels)

## [1] 10 10 10 20 20 50 10 20 10 50 20 50 20 10
print("Ordered Factor:")

## [1] "Ordered Factor:"
print(ordered_fertilizer)

## [1] 10 10 10 20 20 50 10 20 10 50 20 50 20 10
## Levels: 10 < 20 < 50

#3.
#3 You can use a factor to represent the levels undertaken by 10 subjects.

ExrLvl <- c("l", "n", "n", "i", "l", "l", "n", "n", "i", "l")

ExrFact <- factor(ExrLvl, levels = c("n", "l", "i"), labels = c("none", "light", "intense"))

print(ExrFact)

## [1] light  none   none    intense light   light   none    none    intense
## [10] light
## Levels: none light intense

#4.
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.
StateFact <- factor(state)
print(StateFact)

## [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
```

#The results provide the different "Levels" provided in the vector.

#5.

```
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. Sample Mean

```
incmeans <- tapply(incomes, StateFact, mean)
print(incmeans)
```

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

#b. The results show the mean for each state provided

#6.

```
#stdError <- function(x) sqrt(var(x)/length(x))
#incster <- tapply(incomes, statef, stdError)
```

#a. The standard error is that the object 'statef' is not found as the vector was named as 'state'.

#7.

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

```
## Installing package into '/cloud/lib/x86_64-pc-linux-gnu-library/4.3'
## (as 'lib' is unspecified)
```

```
library(titanic)
data("titanic_train")
titanic_data <- titanic_train
```

```
Survived <- subset(titanic_data, Survived == 1)
NotSurvived <- subset(titanic_data, Survived == 0)
```

```
print(Survived)
```

```
##      PassengerId Survived Pclass
## 2              2         1       1
## 3              3         1       3
## 4              4         1       1
## 9              9         1       3
## 10             10         1       2
## 11             11         1       3
## 12             12         1       1
## 16             16         1       2
## 18             18         1       2
## 20             20         1       3
## 22             22         1       2
## 23             23         1       3
## 24             24         1       1
## 26             26         1       3
## 29             29         1       3
## 32             32         1       1
## 33             33         1       3
```

## 37	37	1	3
## 40	40	1	3
## 44	44	1	2
## 45	45	1	3
## 48	48	1	3
## 53	53	1	1
## 54	54	1	2
## 56	56	1	1
## 57	57	1	2
## 59	59	1	2
## 62	62	1	1
## 66	66	1	3
## 67	67	1	2
## 69	69	1	3
## 75	75	1	3
## 79	79	1	2
## 80	80	1	3
## 82	82	1	3
## 83	83	1	3
## 85	85	1	2
## 86	86	1	3
## 89	89	1	1
## 98	98	1	1
## 99	99	1	2
## 107	107	1	3
## 108	108	1	3
## 110	110	1	3
## 124	124	1	2
## 126	126	1	3
## 128	128	1	3
## 129	129	1	3
## 134	134	1	2
## 137	137	1	1
## 142	142	1	3
## 143	143	1	3
## 147	147	1	3
## 152	152	1	1
## 157	157	1	3
## 162	162	1	2
## 166	166	1	3
## 167	167	1	1
## 173	173	1	3
## 184	184	1	2
## 185	185	1	3
## 187	187	1	3
## 188	188	1	1
## 191	191	1	2
## 193	193	1	3
## 194	194	1	2
## 195	195	1	1
## 196	196	1	1
## 199	199	1	3
## 205	205	1	3
## 208	208	1	3

## 209	209	1	3
## 210	210	1	1
## 212	212	1	2
## 216	216	1	1
## 217	217	1	3
## 219	219	1	1
## 221	221	1	3
## 225	225	1	1
## 227	227	1	2
## 231	231	1	1
## 234	234	1	3
## 238	238	1	2
## 242	242	1	3
## 248	248	1	2
## 249	249	1	1
## 256	256	1	3
## 257	257	1	1
## 258	258	1	1
## 259	259	1	1
## 260	260	1	2
## 262	262	1	3
## 268	268	1	3
## 269	269	1	1
## 270	270	1	1
## 272	272	1	3
## 273	273	1	2
## 275	275	1	3
## 276	276	1	1
## 280	280	1	3
## 284	284	1	3
## 287	287	1	3
## 289	289	1	2
## 290	290	1	3
## 291	291	1	1
## 292	292	1	1
## 299	299	1	1
## 300	300	1	1
## 301	301	1	3
## 302	302	1	3
## 304	304	1	2
## 306	306	1	1
## 307	307	1	1
## 308	308	1	1
## 310	310	1	1
## 311	311	1	1
## 312	312	1	1
## 316	316	1	3
## 317	317	1	2
## 319	319	1	1
## 320	320	1	1
## 323	323	1	2
## 324	324	1	2
## 326	326	1	1
## 328	328	1	2

## 329	329	1	3
## 330	330	1	1
## 331	331	1	3
## 335	335	1	1
## 338	338	1	1
## 339	339	1	3
## 341	341	1	2
## 342	342	1	1
## 346	346	1	2
## 347	347	1	2
## 348	348	1	3
## 349	349	1	3
## 357	357	1	1
## 359	359	1	3
## 360	360	1	3
## 367	367	1	1
## 368	368	1	3
## 369	369	1	3
## 370	370	1	1
## 371	371	1	1
## 376	376	1	1
## 377	377	1	3
## 381	381	1	1
## 382	382	1	3
## 384	384	1	1
## 388	388	1	2
## 390	390	1	2
## 391	391	1	1
## 392	392	1	3
## 394	394	1	1
## 395	395	1	3
## 400	400	1	2
## 401	401	1	3
## 408	408	1	2
## 413	413	1	1
## 415	415	1	3
## 417	417	1	2
## 418	418	1	2
## 427	427	1	2
## 428	428	1	2
## 430	430	1	3
## 431	431	1	1
## 432	432	1	3
## 433	433	1	2
## 436	436	1	1
## 438	438	1	2
## 441	441	1	2
## 444	444	1	2
## 445	445	1	3
## 446	446	1	1
## 447	447	1	2
## 448	448	1	1
## 449	449	1	3
## 450	450	1	1

## 454	454	1	1
## 456	456	1	3
## 458	458	1	1
## 459	459	1	2
## 461	461	1	1
## 470	470	1	3
## 473	473	1	2
## 474	474	1	2
## 480	480	1	3
## 484	484	1	3
## 485	485	1	1
## 487	487	1	1
## 490	490	1	3
## 497	497	1	1
## 505	505	1	1
## 507	507	1	2
## 508	508	1	1
## 510	510	1	3
## 511	511	1	3
## 513	513	1	1
## 514	514	1	1
## 517	517	1	2
## 519	519	1	2
## 521	521	1	1
## 524	524	1	1
## 527	527	1	2
## 531	531	1	2
## 534	534	1	3
## 536	536	1	2
## 538	538	1	1
## 540	540	1	1
## 541	541	1	1
## 544	544	1	2
## 547	547	1	2
## 548	548	1	2
## 550	550	1	2
## 551	551	1	1
## 554	554	1	3
## 555	555	1	3
## 557	557	1	1
## 559	559	1	1
## 560	560	1	3
## 570	570	1	3
## 571	571	1	2
## 572	572	1	1
## 573	573	1	1
## 574	574	1	3
## 577	577	1	2
## 578	578	1	1
## 580	580	1	3
## 581	581	1	2
## 582	582	1	1
## 586	586	1	1
## 588	588	1	1

## 592	592	1	1
## 597	597	1	2
## 600	600	1	1
## 601	601	1	2
## 605	605	1	1
## 608	608	1	1
## 609	609	1	2
## 610	610	1	1
## 613	613	1	3
## 616	616	1	2
## 619	619	1	2
## 622	622	1	1
## 623	623	1	3
## 628	628	1	1
## 631	631	1	1
## 633	633	1	1
## 636	636	1	2
## 642	642	1	1
## 644	644	1	3
## 645	645	1	3
## 646	646	1	1
## 648	648	1	1
## 650	650	1	3
## 652	652	1	2
## 654	654	1	3
## 661	661	1	1
## 665	665	1	3
## 670	670	1	1
## 671	671	1	2
## 674	674	1	2
## 678	678	1	3
## 680	680	1	1
## 682	682	1	1
## 690	690	1	1
## 691	691	1	1
## 692	692	1	3
## 693	693	1	3
## 698	698	1	3
## 701	701	1	1
## 702	702	1	1
## 707	707	1	2
## 708	708	1	1
## 709	709	1	1
## 710	710	1	3
## 711	711	1	1
## 713	713	1	1
## 717	717	1	1
## 718	718	1	2
## 721	721	1	2
## 725	725	1	1
## 727	727	1	2
## 728	728	1	3
## 731	731	1	1
## 738	738	1	1

## 741	741	1	1
## 743	743	1	1
## 745	745	1	3
## 748	748	1	2
## 751	751	1	2
## 752	752	1	3
## 755	755	1	2
## 756	756	1	2
## 760	760	1	1
## 763	763	1	3
## 764	764	1	1
## 766	766	1	1
## 775	775	1	2
## 778	778	1	3
## 780	780	1	1
## 781	781	1	3
## 782	782	1	1
## 787	787	1	3
## 789	789	1	3
## 797	797	1	1
## 798	798	1	3
## 802	802	1	2
## 803	803	1	1
## 804	804	1	3
## 805	805	1	3
## 810	810	1	1
## 821	821	1	1
## 822	822	1	3
## 824	824	1	3
## 828	828	1	2
## 829	829	1	3
## 830	830	1	1
## 831	831	1	3
## 832	832	1	2
## 836	836	1	1
## 839	839	1	3
## 840	840	1	1
## 843	843	1	1
## 850	850	1	1
## 854	854	1	1
## 856	856	1	3
## 857	857	1	1
## 858	858	1	1
## 859	859	1	3
## 863	863	1	1
## 866	866	1	2
## 867	867	1	2
## 870	870	1	3
## 872	872	1	1
## 875	875	1	2
## 876	876	1	3
## 880	880	1	1
## 881	881	1	2
## 888	888	1	1

## 890	890	1	1	
##				Name
## 2				Cummings, Mrs. John Bradley (Florence Briggs Thayer)
## 3				Heikkinen, Miss. Laina
## 4				Futrelle, Mrs. Jacques Heath (Lily May Peel)
## 9				Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)
## 10				Nasser, Mrs. Nicholas (Adele Achem)
## 11				Sandstrom, Miss. Marguerite Rut
## 12				Bonnell, Miss. Elizabeth
## 16				Hewlett, Mrs. (Mary D Kingcome)
## 18				Williams, Mr. Charles Eugene
## 20				Masselmani, Mrs. Fatima
## 22				Beesley, Mr. Lawrence
## 23				McGowan, Miss. Anna "Annie"
## 24				Sloper, Mr. William Thompson
## 26	Asplund, Mrs. Carl Oscar	(Selma Augusta Emilia Johansson)		
## 29		O'Dwyer, Miss. Ellen "Nellie"		
## 32		Spencer, Mrs. William Augustus (Marie Eugenie)		
## 33		Glynn, Miss. Mary Agatha		
## 37		Mamee, Mr. Hanna		
## 40		Nicola-Yarred, Miss. Jamila		
## 44		Laroche, Miss. Simonne Marie Anne Andree		
## 45		Devaney, Miss. Margaret Delia		
## 48		O'Driscoll, Miss. Bridget		
## 53		Harper, Mrs. Henry Sleeper (Myna Haxtun)		
## 54	Faunthorpe, Mrs. Lizzie	(Elizabeth Anne Wilkinson)		
## 56		Woolner, Mr. Hugh		
## 57		Rugg, Miss. Emily		
## 59		West, Miss. Constance Mirium		
## 62		Icard, Miss. Amelie		
## 66		Moubarek, Master. Gerios		
## 67		Nye, Mrs. (Elizabeth Ramell)		
## 69		Andersson, Miss. Erna Alexandra		
## 75		Bing, Mr. Lee		
## 79		Caldwell, Master. Alden Gates		
## 80		Dowdell, Miss. Elizabeth		
## 82		Sheerlinck, Mr. Jan Baptist		
## 83		McDermott, Miss. Brigdet Delia		
## 85		Ilett, Miss. Bertha		
## 86	Backstrom, Mrs. Karl Alfred	(Maria Mathilda Gustafsson)		
## 89		Fortune, Miss. Mabel Helen		
## 98		Greenfield, Mr. William Bertram		
## 99		Doling, Mrs. John T (Ada Julia Bone)		
## 107		Salkjelsvik, Miss. Anna Kristine		
## 108		Moss, Mr. Albert Johan		
## 110		Moran, Miss. Bertha		
## 124		Webber, Miss. Susan		
## 126		Nicola-Yarred, Master. Elias		
## 128		Madsen, Mr. Fridtjof Arne		
## 129		Peter, Miss. Anna		
## 134		Weisz, Mrs. Leopold (Mathilde Francoise Pede)		
## 137		Newsom, Miss. Helen Monypeny		
## 142		Nysten, Miss. Anna Sofia		
## 143	Hakkarainen, Mrs. Pekka Pietari	(Elin Matilda Dolck)		

299 Saalfeld, Mr. Adolphe
 ## 300 Baxter, Mrs. James (Helene DeLaudeniére Chaput)
 ## 301 Kelly, Miss. Anna Katherine "Annie Kate"
 ## 302 McCoy, Mr. Bernard
 ## 304 Keane, Miss. Nora A
 ## 306 Allison, Master. Hudson Trevor
 ## 307 Fleming, Miss. Margaret
 ## 308 Penasco y Castellana, Mrs. Victor de Satode (Maria Josefa Perez de Soto y Vallejo)
 ## 310 Francatelli, Miss. Laura Mabel
 ## 311 Hays, Miss. Margaret Bechstein
 ## 312 Ryerson, Miss. Emily Borie
 ## 316 Nilsson, Miss. Helmina Josefina
 ## 317 Kantor, Mrs. Sinai (Miriam Sternin)
 ## 319 Wick, Miss. Mary Natalie
 ## 320 Spedden, Mrs. Frederic Oakley (Margaretta Corning Stone)
 ## 323 Slayter, Miss. Hilda Mary
 ## 324 Caldwell, Mrs. Albert Francis (Sylvia Mae Harbaugh)
 ## 326 Young, Miss. Marie Grice
 ## 328 Ball, Mrs. (Ada E Hall)
 ## 329 Goldsmith, Mrs. Frank John (Emily Alice Brown)
 ## 330 Hippach, Miss. Jean Gertrude
 ## 331 McCoy, Miss. Agnes
 ## 335 Frauenthal, Mrs. Henry William (Clara Heinsheimer)
 ## 338 Burns, Miss. Elizabeth Margaret
 ## 339 Dahl, Mr. Karl Edwart
 ## 341 Navratil, Master. Edmond Roger
 ## 342 Fortune, Miss. Alice Elizabeth
 ## 346 Brown, Miss. Amelia "Mildred"
 ## 347 Smith, Miss. Marion Elsie
 ## 348 Davison, Mrs. Thomas Henry (Mary E Finck)
 ## 349 Coutts, Master. William Loch "William"
 ## 357 Bowerman, Miss. Elsie Edith
 ## 359 McGovern, Miss. Mary
 ## 360 Mockler, Miss. Helen Mary "Ellie"
 ## 367 Warren, Mrs. Frank Manley (Anna Sophia Atkinson)
 ## 368 Moussa, Mrs. (Mantoura Boulos)
 ## 369 Jermyn, Miss. Annie
 ## 370 Aubart, Mme. Leontine Pauline
 ## 371 Harder, Mr. George Achilles
 ## 376 Meyer, Mrs. Edgar Joseph (Leila Saks)
 ## 377 Landergren, Miss. Aurora Adelia
 ## 381 Bidois, Miss. Rosalie
 ## 382 Nakid, Miss. Maria ("Mary")
 ## 384 Holverson, Mrs. Alexander Oskar (Mary Aline Towner)
 ## 388 Buss, Miss. Kate
 ## 390 Lehmann, Miss. Bertha
 ## 391 Carter, Mr. William Ernest
 ## 392 Jansson, Mr. Carl Olof
 ## 394 Newell, Miss. Marjorie
 ## 395 Sandstrom, Mrs. Hjalmar (Agnes Charlotta Bengtsson)
 ## 400 Trout, Mrs. William H (Jessie L)
 ## 401 Niskanen, Mr. Juha
 ## 408 Richards, Master. William Rowe
 ## 413 Minahan, Miss. Daisy E

415 Sundman, Mr. Johan Julian
 ## 417 Drew, Mrs. James Vivian (Lulu Thorne Christian)
 ## 418 Silven, Miss. Lyyli Karoliina
 ## 427 Clarke, Mrs. Charles V (Ada Maria Winfield)
 ## 428 Phillips, Miss. Kate Florence ("Mrs Kate Louise Phillips Marshall")
 ## 430 Pickard, Mr. Berk (Berk Trembisky)
 ## 431 Bjornstrom-Steffansson, Mr. Mauritz Hakan
 ## 432 Thorneycroft, Mrs. Percival (Florence Kate White)
 ## 433 Louch, Mrs. Charles Alexander (Alice Adelaide Slow)
 ## 436 Carter, Miss. Lucile Polk
 ## 438 Richards, Mrs. Sidney (Emily Hocking)
 ## 441 Hart, Mrs. Benjamin (Esther Ada Bloomfield)
 ## 444 Reynaldo, Ms. Encarnacion
 ## 445 Johannesen-Bratthammer, Mr. Bernt
 ## 446 Dodge, Master. Washington
 ## 447 Mellinger, Miss. Madeleine Violet
 ## 448 Seward, Mr. Frederic Kimber
 ## 449 Baclini, Miss. Marie Catherine
 ## 450 Peuchen, Major. Arthur Godfrey
 ## 454 Goldenberg, Mr. Samuel L
 ## 456 Jalsevac, Mr. Ivan
 ## 458 Kenyon, Mrs. Frederick R (Marion)
 ## 459 Toomey, Miss. Ellen
 ## 461 Anderson, Mr. Harry
 ## 470 Baclini, Miss. Helene Barbara
 ## 473 West, Mrs. Edwy Arthur (Ada Mary Worth)
 ## 474 Jerwan, Mrs. Amin S (Marie Marthe Thuillard)
 ## 480 Hirvonen, Miss. Hildur E
 ## 484 Turkula, Mrs. (Hedwig)
 ## 485 Bishop, Mr. Dickinson H
 ## 487 Hoyt, Mrs. Frederick Maxfield (Jane Anne Forby)
 ## 490 Coutts, Master. Eden Leslie "Neville"
 ## 497 Eustis, Miss. Elizabeth Mussey
 ## 505 Maioni, Miss. Roberta
 ## 507 Quick, Mrs. Frederick Charles (Jane Richards)
 ## 508 Bradley, Mr. George ("George Arthur Brayton")
 ## 510 Lang, Mr. Fang
 ## 511 Daly, Mr. Eugene Patrick
 ## 513 McGough, Mr. James Robert
 ## 514 Rothschild, Mrs. Martin (Elizabeth L. Barrett)
 ## 517 Lemoire, Mrs. (Amelia Milley)
 ## 519 Angle, Mrs. William A (Florence "Mary" Agnes Hughes)
 ## 521 Perreault, Miss. Anne
 ## 524 Hippach, Mrs. Louis Albert (Ida Sophia Fischer)
 ## 527 Ridsdale, Miss. Lucy
 ## 531 Quick, Miss. Phyllis May
 ## 534 Peter, Mrs. Catherine (Catherine Rizk)
 ## 536 Hart, Miss. Eva Miriam
 ## 538 LeRoy, Miss. Bertha
 ## 540 Frolicher, Miss. Hedwig Margaritha
 ## 541 Crosby, Miss. Harriet R
 ## 544 Beane, Mr. Edward
 ## 547 Beane, Mrs. Edward (Ethel Clarke)
 ## 548 Padro y Manent, Mr. Julian

550 Davies, Master. John Morgan Jr
 ## 551 Thayer, Mr. John Borland Jr
 ## 554 Leeni, Mr. Fahim ("Philip Zenni")
 ## 555 Ohman, Miss. Velin
 ## 557 Duff Gordon, Lady. (Lucille Christiana Sutherland) ("Mrs Morgan")
 ## 559 Taussig, Mrs. Emil (Tillie Mandelbaum)
 ## 560 de Messemaeker, Mrs. Guillaume Joseph (Emma)
 ## 570 Jonsson, Mr. Carl
 ## 571 Harris, Mr. George
 ## 572 Appleton, Mrs. Edward Dale (Charlotte Lamson)
 ## 573 Flynn, Mr. John Irwin ("Irving")
 ## 574 Kelly, Miss. Mary
 ## 577 Garside, Miss. Ethel
 ## 578 Silvey, Mrs. William Baird (Alice Munger)
 ## 580 Jussila, Mr. Eiriik
 ## 581 Christy, Miss. Julie Rachel
 ## 582 Thayer, Mrs. John Borland (Marian Longstreth Morris)
 ## 586 Taussig, Miss. Ruth
 ## 588 Frolicher-Stehli, Mr. Maxmillian
 ## 592 Stephenson, Mrs. Walter Bertram (Martha Eustis)
 ## 597 Leitch, Miss. Jessie Wills
 ## 600 Duff Gordon, Sir. Cosmo Edmund ("Mr Morgan")
 ## 601 Jacobsohn, Mrs. Sidney Samuel (Amy Frances Christy)
 ## 605 Homer, Mr. Harry ("Mr E Haven")
 ## 608 Daniel, Mr. Robert Williams
 ## 609 Laroche, Mrs. Joseph (Juliette Marie Louise Lafargue)
 ## 610 Shutes, Miss. Elizabeth W
 ## 613 Murphy, Miss. Margaret Jane
 ## 616 Herman, Miss. Alice
 ## 619 Becker, Miss. Marion Louise
 ## 622 Kimball, Mr. Edwin Nelson Jr
 ## 623 Nakid, Mr. Sahid
 ## 628 Longley, Miss. Gretchen Fiske
 ## 631 Barkworth, Mr. Algernon Henry Wilson
 ## 633 Stahelin-Maeglin, Dr. Max
 ## 636 Davis, Miss. Mary
 ## 642 Sagesser, Mlle. Emma
 ## 644 Foo, Mr. Choong
 ## 645 Baclini, Miss. Eugenie
 ## 646 Harper, Mr. Henry Sleeper
 ## 648 Simonius-Blumer, Col. Oberst Alfons
 ## 650 Stanley, Miss. Amy Zillah Elsie
 ## 652 Doling, Miss. Elsie
 ## 654 O'Leary, Miss. Hanora "Norah"
 ## 661 Frauenthal, Dr. Henry William
 ## 665 Lindqvist, Mr. Eino William
 ## 670 Taylor, Mrs. Elmer Zebley (Juliet Cummins Wright)
 ## 671 Brown, Mrs. Thomas William Solomon (Elizabeth Catherine Ford)
 ## 674 Wilhelms, Mr. Charles
 ## 678 Turja, Miss. Anna Sofia
 ## 680 Cardeza, Mr. Thomas Drake Martinez
 ## 682 Hassab, Mr. Hammad
 ## 690 Madill, Miss. Georgette Alexandra
 ## 691 Dick, Mr. Albert Adrian

692 Karun, Miss. Manca
 ## 693 Lam, Mr. Ali
 ## 698 Mullens, Miss. Katherine "Katie"
 ## 701 Astor, Mrs. John Jacob (Madeleine Talmadge Force)
 ## 702 Silverthorne, Mr. Spencer Victor
 ## 707 Kelly, Mrs. Florence "Fannie"
 ## 708 Calderhead, Mr. Edward Pennington
 ## 709 Cleaver, Miss. Alice
 ## 710 Moubarek, Master. Halim Gonios ("William George")
 ## 711 Mayne, Mlle. Berthe Antonine ("Mrs de Villiers")
 ## 713 Taylor, Mr. Elmer Zebley
 ## 717 Endres, Miss. Caroline Louise
 ## 718 Troutt, Miss. Edwina Celia "Winnie"
 ## 721 Harper, Miss. Annie Jessie "Nina"
 ## 725 Chambers, Mr. Norman Campbell
 ## 727 Renouf, Mrs. Peter Henry (Lillian Jefferys)
 ## 728 Mannion, Miss. Margareth
 ## 731 Allen, Miss. Elisabeth Walton
 ## 738 Lesurer, Mr. Gustave J
 ## 741 Hawksford, Mr. Walter James
 ## 743 Ryerson, Miss. Susan Parker "Suzette"
 ## 745 Stranden, Mr. Juho
 ## 748 Sinkkonen, Miss. Anna
 ## 751 Wells, Miss. Joan
 ## 752 Moor, Master. Meier
 ## 755 Herman, Mrs. Samuel (Jane Laver)
 ## 756 Hamalainen, Master. Viljo
 ## 760 Rothes, the Countess. of (Lucy Noel Martha Dyer-Edwards)
 ## 763 Barah, Mr. Hanna Assi
 ## 764 Carter, Mrs. William Ernest (Lucile Polk)
 ## 766 Hogeboom, Mrs. John C (Anna Andrews)
 ## 775 Hocking, Mrs. Elizabeth (Eliza Needs)
 ## 778 Emanuel, Miss. Virginia Ethel
 ## 780 Robert, Mrs. Edward Scott (Elisabeth Walton McMillan)
 ## 781 Ayoub, Miss. Banoura
 ## 782 Dick, Mrs. Albert Adrian (Vera Gillespie)
 ## 787 Sjoblom, Miss. Anna Sofia
 ## 789 Dean, Master. Bertram Vere
 ## 797 Leader, Dr. Alice (Farnham)
 ## 798 Osman, Mrs. Mara
 ## 802 Collyer, Mrs. Harvey (Charlotte Annie Tate)
 ## 803 Carter, Master. William Thornton II
 ## 804 Thomas, Master. Assad Alexander
 ## 805 Hedman, Mr. Oskar Arvid
 ## 810 Chambers, Mrs. Norman Campbell (Bertha Griggs)
 ## 821 Hays, Mrs. Charles Melville (Clara Jennings Gregg)
 ## 822 Lulic, Mr. Nikola
 ## 824 Moor, Mrs. (Beila)
 ## 828 Mallet, Master. Andre
 ## 829 McCormack, Mr. Thomas Joseph
 ## 830 Stone, Mrs. George Nelson (Martha Evelyn)
 ## 831 Yasbeck, Mrs. Antoni (Selini Alexander)
 ## 832 Richards, Master. George Sibley
 ## 836 Compton, Miss. Sara Rebecca

## 839							Chip, Mr. Chang	
## 840							Marechal, Mr. Pierre	
## 843							Serepeca, Miss. Augusta	
## 850							Goldenberg, Mrs. Samuel L (Edwiga Grabowska)	
## 854							Lines, Miss. Mary Conover	
## 856							Aks, Mrs. Sam (Leah Rosen)	
## 857							Wick, Mrs. George Dennick (Mary Hitchcock)	
## 858							Daly, Mr. Peter Denis	
## 859							Baclini, Mrs. Solomon (Latifa Qurban)	
## 863							Swift, Mrs. Frederick Joel (Margaret Welles Barron)	
## 866							Bystrom, Mrs. (Karolina)	
## 867							Duran y More, Miss. Asuncion	
## 870							Johnson, Master. Harold Theodor	
## 872							Beckwith, Mrs. Richard Leonard (Sallie Monypeny)	
## 875							Abelson, Mrs. Samuel (Hannah Witosky)	
## 876							Najib, Miss. Adele Kiamie "Jane"	
## 880							Potter, Mrs. Thomas Jr (Lily Alexenia Wilson)	
## 881							Shelley, Mrs. William (Imanita Parrish Hall)	
## 888							Graham, Miss. Margaret Edith	
## 890							Behr, Mr. Karl Howell	
##	Sex	Age	SibSp	Parch		Ticket	Fare	Cabin
## 2	female	38.00	1	0		PC 17599	71.2833	C85
## 3	female	26.00	0	0	STON/O2.	3101282	7.9250	
## 4	female	35.00	1	0		113803	53.1000	C123
## 9	female	27.00	0	2		347742	11.1333	
## 10	female	14.00	1	0		237736	30.0708	
## 11	female	4.00	1	1		PP 9549	16.7000	G6
## 12	female	58.00	0	0		113783	26.5500	C103
## 16	female	55.00	0	0		248706	16.0000	
## 18	male	NA	0	0		244373	13.0000	
## 20	female	NA	0	0		2649	7.2250	
## 22	male	34.00	0	0		248698	13.0000	D56
## 23	female	15.00	0	0		330923	8.0292	
## 24	male	28.00	0	0		113788	35.5000	A6
## 26	female	38.00	1	5		347077	31.3875	
## 29	female	NA	0	0		330959	7.8792	
## 32	female	NA	1	0		PC 17569	146.5208	B78
## 33	female	NA	0	0		335677	7.7500	
## 37	male	NA	0	0		2677	7.2292	
## 40	female	14.00	1	0		2651	11.2417	
## 44	female	3.00	1	2	SC/Paris	2123	41.5792	
## 45	female	19.00	0	0		330958	7.8792	
## 48	female	NA	0	0		14311	7.7500	
## 53	female	49.00	1	0		PC 17572	76.7292	D33
## 54	female	29.00	1	0		2926	26.0000	
## 56	male	NA	0	0		19947	35.5000	C52
## 57	female	21.00	0	0		C.A. 31026	10.5000	
## 59	female	5.00	1	2		C.A. 34651	27.7500	
## 62	female	38.00	0	0		113572	80.0000	B28
## 66	male	NA	1	1		2661	15.2458	
## 67	female	29.00	0	0		C.A. 29395	10.5000	F33
## 69	female	17.00	4	2		3101281	7.9250	
## 75	male	32.00	0	0		1601	56.4958	
## 79	male	0.83	0	2		248738	29.0000	

## 80	female	30.00	0	0	364516	12.4750	
## 82	male	29.00	0	0	345779	9.5000	
## 83	female	NA	0	0	330932	7.7875	
## 85	female	17.00	0	0	SO/C 14885	10.5000	
## 86	female	33.00	3	0	3101278	15.8500	
## 89	female	23.00	3	2	19950	263.0000	C23 C25 C27
## 98	male	23.00	0	1	PC 17759	63.3583	D10 D12
## 99	female	34.00	0	1	231919	23.0000	
## 107	female	21.00	0	0	343120	7.6500	
## 108	male	NA	0	0	312991	7.7750	
## 110	female	NA	1	0	371110	24.1500	
## 124	female	32.50	0	0	27267	13.0000	E101
## 126	male	12.00	1	0	2651	11.2417	
## 128	male	24.00	0	0	C 17369	7.1417	
## 129	female	NA	1	1	2668	22.3583	F E69
## 134	female	29.00	1	0	228414	26.0000	
## 137	female	19.00	0	2	11752	26.2833	D47
## 142	female	22.00	0	0	347081	7.7500	
## 143	female	24.00	1	0	STON/O2. 3101279	15.8500	
## 147	male	27.00	0	0	350043	7.7958	
## 152	female	22.00	1	0	113776	66.6000	C2
## 157	female	16.00	0	0	35851	7.7333	
## 162	female	40.00	0	0	C.A. 33595	15.7500	
## 166	male	9.00	0	2	363291	20.5250	
## 167	female	NA	0	1	113505	55.0000	E33
## 173	female	1.00	1	1	347742	11.1333	
## 184	male	1.00	2	1	230136	39.0000	F4
## 185	female	4.00	0	2	315153	22.0250	
## 187	female	NA	1	0	370365	15.5000	
## 188	male	45.00	0	0	111428	26.5500	
## 191	female	32.00	0	0	234604	13.0000	
## 193	female	19.00	1	0	350046	7.8542	
## 194	male	3.00	1	1	230080	26.0000	F2
## 195	female	44.00	0	0	PC 17610	27.7208	B4
## 196	female	58.00	0	0	PC 17569	146.5208	B80
## 199	female	NA	0	0	370370	7.7500	
## 205	male	18.00	0	0	A/5 3540	8.0500	
## 208	male	26.00	0	0	2699	18.7875	
## 209	female	16.00	0	0	367231	7.7500	
## 210	male	40.00	0	0	112277	31.0000	A31
## 212	female	35.00	0	0	F.C.C. 13528	21.0000	
## 216	female	31.00	1	0	35273	113.2750	D36
## 217	female	27.00	0	0	STON/O2. 3101283	7.9250	
## 219	female	32.00	0	0	11813	76.2917	D15
## 221	male	16.00	0	0	SOTON/OQ 392089	8.0500	
## 225	male	38.00	1	0	19943	90.0000	C93
## 227	male	19.00	0	0	SW/PP 751	10.5000	
## 231	female	35.00	1	0	36973	83.4750	C83
## 234	female	5.00	4	2	347077	31.3875	
## 238	female	8.00	0	2	C.A. 31921	26.2500	
## 242	female	NA	1	0	367230	15.5000	
## 248	female	24.00	0	2	250649	14.5000	
## 249	male	37.00	1	1	11751	52.5542	D35
## 256	female	29.00	0	2	2650	15.2458	

## 257 female	NA	0	0	PC 17585	79.2000	
## 258 female	30.00	0	0	110152	86.5000	B77
## 259 female	35.00	0	0	PC 17755	512.3292	
## 260 female	50.00	0	1	230433	26.0000	
## 262 male	3.00	4	2	347077	31.3875	
## 268 male	25.00	1	0	347083	7.7750	
## 269 female	58.00	0	1	PC 17582	153.4625	C125
## 270 female	35.00	0	0	PC 17760	135.6333	C99
## 272 male	25.00	0	0	LINE	0.0000	
## 273 female	41.00	0	1	250644	19.5000	
## 275 female	NA	0	0	370375	7.7500	
## 276 female	63.00	1	0	13502	77.9583	D7
## 280 female	35.00	1	1	C.A. 2673	20.2500	
## 284 male	19.00	0	0	A/5. 10482	8.0500	
## 287 male	30.00	0	0	345774	9.5000	
## 289 male	42.00	0	0	237798	13.0000	
## 290 female	22.00	0	0	370373	7.7500	
## 291 female	26.00	0	0	19877	78.8500	
## 292 female	19.00	1	0	11967	91.0792	B49
## 299 male	NA	0	0	19988	30.5000	C106
## 300 female	50.00	0	1	PC 17558	247.5208	B58 B60
## 301 female	NA	0	0	9234	7.7500	
## 302 male	NA	2	0	367226	23.2500	
## 304 female	NA	0	0	226593	12.3500	E101
## 306 male	0.92	1	2	113781	151.5500	C22 C26
## 307 female	NA	0	0	17421	110.8833	
## 308 female	17.00	1	0	PC 17758	108.9000	C65
## 310 female	30.00	0	0	PC 17485	56.9292	E36
## 311 female	24.00	0	0	11767	83.1583	C54
## 312 female	18.00	2	2	PC 17608	262.3750	B57 B59 B63 B66
## 316 female	26.00	0	0	347470	7.8542	
## 317 female	24.00	1	0	244367	26.0000	
## 319 female	31.00	0	2	36928	164.8667	C7
## 320 female	40.00	1	1	16966	134.5000	E34
## 323 female	30.00	0	0	234818	12.3500	
## 324 female	22.00	1	1	248738	29.0000	
## 326 female	36.00	0	0	PC 17760	135.6333	C32
## 328 female	36.00	0	0	28551	13.0000	D
## 329 female	31.00	1	1	363291	20.5250	
## 330 female	16.00	0	1	111361	57.9792	B18
## 331 female	NA	2	0	367226	23.2500	
## 335 female	NA	1	0	PC 17611	133.6500	
## 338 female	41.00	0	0	16966	134.5000	E40
## 339 male	45.00	0	0	7598	8.0500	
## 341 male	2.00	1	1	230080	26.0000	F2
## 342 female	24.00	3	2	19950	263.0000	C23 C25 C27
## 346 female	24.00	0	0	248733	13.0000	F33
## 347 female	40.00	0	0	31418	13.0000	
## 348 female	NA	1	0	386525	16.1000	
## 349 male	3.00	1	1	C.A. 37671	15.9000	
## 357 female	22.00	0	1	113505	55.0000	E33
## 359 female	NA	0	0	330931	7.8792	
## 360 female	NA	0	0	330980	7.8792	
## 367 female	60.00	1	0	110813	75.2500	D37

## 368 female	NA	0	0	2626	7.2292	
## 369 female	NA	0	0	14313	7.7500	
## 370 female	24.00	0	0	PC 17477	69.3000	B35
## 371 male	25.00	1	0	11765	55.4417	E50
## 376 female	NA	1	0	PC 17604	82.1708	
## 377 female	22.00	0	0	C 7077	7.2500	
## 381 female	42.00	0	0	PC 17757	227.5250	
## 382 female	1.00	0	2	2653	15.7417	
## 384 female	35.00	1	0	113789	52.0000	
## 388 female	36.00	0	0	27849	13.0000	
## 390 female	17.00	0	0	SC 1748	12.0000	
## 391 male	36.00	1	2	113760	120.0000	B96 B98
## 392 male	21.00	0	0	350034	7.7958	
## 394 female	23.00	1	0	35273	113.2750	D36
## 395 female	24.00	0	2	PP 9549	16.7000	G6
## 400 female	28.00	0	0	240929	12.6500	
## 401 male	39.00	0	0	STON/O 2. 3101289	7.9250	
## 408 male	3.00	1	1	29106	18.7500	
## 413 female	33.00	1	0	19928	90.0000	C78
## 415 male	44.00	0	0	STON/O 2. 3101269	7.9250	
## 417 female	34.00	1	1	28220	32.5000	
## 418 female	18.00	0	2	250652	13.0000	
## 427 female	28.00	1	0	2003	26.0000	
## 428 female	19.00	0	0	250655	26.0000	
## 430 male	32.00	0	0	SOTON/O.Q. 392078	8.0500	E10
## 431 male	28.00	0	0	110564	26.5500	C52
## 432 female	NA	1	0	376564	16.1000	
## 433 female	42.00	1	0	SC/AH 3085	26.0000	
## 436 female	14.00	1	2	113760	120.0000	B96 B98
## 438 female	24.00	2	3	29106	18.7500	
## 441 female	45.00	1	1	F.C.C. 13529	26.2500	
## 444 female	28.00	0	0	230434	13.0000	
## 445 male	NA	0	0	65306	8.1125	
## 446 male	4.00	0	2	33638	81.8583	A34
## 447 female	13.00	0	1	250644	19.5000	
## 448 male	34.00	0	0	113794	26.5500	
## 449 female	5.00	2	1	2666	19.2583	
## 450 male	52.00	0	0	113786	30.5000	C104
## 454 male	49.00	1	0	17453	89.1042	C92
## 456 male	29.00	0	0	349240	7.8958	
## 458 female	NA	1	0	17464	51.8625	D21
## 459 female	50.00	0	0	F.C.C. 13531	10.5000	
## 461 male	48.00	0	0	19952	26.5500	E12
## 470 female	0.75	2	1	2666	19.2583	
## 473 female	33.00	1	2	C.A. 34651	27.7500	
## 474 female	23.00	0	0	SC/AH Basle 541	13.7917	D
## 480 female	2.00	0	1	3101298	12.2875	
## 484 female	63.00	0	0	4134	9.5875	
## 485 male	25.00	1	0	11967	91.0792	B49
## 487 female	35.00	1	0	19943	90.0000	C93
## 490 male	9.00	1	1	C.A. 37671	15.9000	
## 497 female	54.00	1	0	36947	78.2667	D20
## 505 female	16.00	0	0	110152	86.5000	B79
## 507 female	33.00	0	2	26360	26.0000	

## 508	male	NA	0	0	111427	26.5500	
## 510	male	26.00	0	0	1601	56.4958	
## 511	male	29.00	0	0	382651	7.7500	
## 513	male	36.00	0	0	PC 17473	26.2875	E25
## 514	female	54.00	1	0	PC 17603	59.4000	
## 517	female	34.00	0	0	C.A. 34260	10.5000	F33
## 519	female	36.00	1	0	226875	26.0000	
## 521	female	30.00	0	0	12749	93.5000	B73
## 524	female	44.00	0	1	111361	57.9792	B18
## 527	female	50.00	0	0	W./C. 14258	10.5000	
## 531	female	2.00	1	1	26360	26.0000	
## 534	female	NA	0	2	2668	22.3583	
## 536	female	7.00	0	2	F.C.C. 13529	26.2500	
## 538	female	30.00	0	0	PC 17761	106.4250	
## 540	female	22.00	0	2	13568	49.5000	B39
## 541	female	36.00	0	2	WE/P 5735	71.0000	B22
## 544	male	32.00	1	0	2908	26.0000	
## 547	female	19.00	1	0	2908	26.0000	
## 548	male	NA	0	0	SC/PARIS 2146	13.8625	
## 550	male	8.00	1	1	C.A. 33112	36.7500	
## 551	male	17.00	0	2	17421	110.8833	C70
## 554	male	22.00	0	0	2620	7.2250	
## 555	female	22.00	0	0	347085	7.7750	
## 557	female	48.00	1	0	11755	39.6000	A16
## 559	female	39.00	1	1	110413	79.6500	E67
## 560	female	36.00	1	0	345572	17.4000	
## 570	male	32.00	0	0	350417	7.8542	
## 571	male	62.00	0	0	S.W./PP 752	10.5000	
## 572	female	53.00	2	0	11769	51.4792	C101
## 573	male	36.00	0	0	PC 17474	26.3875	E25
## 574	female	NA	0	0	14312	7.7500	
## 577	female	34.00	0	0	243880	13.0000	
## 578	female	39.00	1	0	13507	55.9000	E44
## 580	male	32.00	0	0	STON/O 2. 3101286	7.9250	
## 581	female	25.00	1	1	237789	30.0000	
## 582	female	39.00	1	1	17421	110.8833	C68
## 586	female	18.00	0	2	110413	79.6500	E68
## 588	male	60.00	1	1	13567	79.2000	B41
## 592	female	52.00	1	0	36947	78.2667	D20
## 597	female	NA	0	0	248727	33.0000	
## 600	male	49.00	1	0	PC 17485	56.9292	A20
## 601	female	24.00	2	1	243847	27.0000	
## 605	male	35.00	0	0	111426	26.5500	
## 608	male	27.00	0	0	113804	30.5000	
## 609	female	22.00	1	2	SC/Paris 2123	41.5792	
## 610	female	40.00	0	0	PC 17582	153.4625	C125
## 613	female	NA	1	0	367230	15.5000	
## 616	female	24.00	1	2	220845	65.0000	
## 619	female	4.00	2	1	230136	39.0000	F4
## 622	male	42.00	1	0	11753	52.5542	D19
## 623	male	20.00	1	1	2653	15.7417	
## 628	female	21.00	0	0	13502	77.9583	D9
## 631	male	80.00	0	0	27042	30.0000	A23
## 633	male	32.00	0	0	13214	30.5000	B50

## 636 female	28.00	0	0	237668	13.0000	
## 642 female	24.00	0	0	PC 17477	69.3000	B35
## 644 male	NA	0	0	1601	56.4958	
## 645 female	0.75	2	1	2666	19.2583	
## 646 male	48.00	1	0	PC 17572	76.7292	D33
## 648 male	56.00	0	0	13213	35.5000	A26
## 650 female	23.00	0	0	CA. 2314	7.5500	
## 652 female	18.00	0	1	231919	23.0000	
## 654 female	NA	0	0	330919	7.8292	
## 661 male	50.00	2	0	PC 17611	133.6500	
## 665 male	20.00	1	0	STON/O 2. 3101285	7.9250	
## 670 female	NA	1	0	19996	52.0000	C126
## 671 female	40.00	1	1	29750	39.0000	
## 674 male	31.00	0	0	244270	13.0000	
## 678 female	18.00	0	0	4138	9.8417	
## 680 male	36.00	0	1	PC 17755	512.3292	B51 B53 B55
## 682 male	27.00	0	0	PC 17572	76.7292	D49
## 690 female	15.00	0	1	24160	211.3375	B5
## 691 male	31.00	1	0	17474	57.0000	B20
## 692 female	4.00	0	1	349256	13.4167	
## 693 male	NA	0	0	1601	56.4958	
## 698 female	NA	0	0	35852	7.7333	
## 701 female	18.00	1	0	PC 17757	227.5250	C62 C64
## 702 male	35.00	0	0	PC 17475	26.2875	E24
## 707 female	45.00	0	0	223596	13.5000	
## 708 male	42.00	0	0	PC 17476	26.2875	E24
## 709 female	22.00	0	0	113781	151.5500	
## 710 male	NA	1	1	2661	15.2458	
## 711 female	24.00	0	0	PC 17482	49.5042	C90
## 713 male	48.00	1	0	19996	52.0000	C126
## 717 female	38.00	0	0	PC 17757	227.5250	C45
## 718 female	27.00	0	0	34218	10.5000	E101
## 721 female	6.00	0	1	248727	33.0000	
## 725 male	27.00	1	0	113806	53.1000	E8
## 727 female	30.00	3	0	31027	21.0000	
## 728 female	NA	0	0	36866	7.7375	
## 731 female	29.00	0	0	24160	211.3375	B5
## 738 male	35.00	0	0	PC 17755	512.3292	B101
## 741 male	NA	0	0	16988	30.0000	D45
## 743 female	21.00	2	2	PC 17608	262.3750	B57 B59 B63 B66
## 745 male	31.00	0	0	STON/O 2. 3101288	7.9250	
## 748 female	30.00	0	0	250648	13.0000	
## 751 female	4.00	1	1	29103	23.0000	
## 752 male	6.00	0	1	392096	12.4750	E121
## 755 female	48.00	1	2	220845	65.0000	
## 756 male	0.67	1	1	250649	14.5000	
## 760 female	33.00	0	0	110152	86.5000	B77
## 763 male	20.00	0	0	2663	7.2292	
## 764 female	36.00	1	2	113760	120.0000	B96 B98
## 766 female	51.00	1	0	13502	77.9583	D11
## 775 female	54.00	1	3	29105	23.0000	
## 778 female	5.00	0	0	364516	12.4750	
## 780 female	43.00	0	1	24160	211.3375	B3
## 781 female	13.00	0	0	2687	7.2292	

## 782 female	17.00	1	0	17474	57.0000	B20
## 787 female	18.00	0	0	3101265	7.4958	
## 789 male	1.00	1	2	C.A. 2315	20.5750	
## 797 female	49.00	0	0	17465	25.9292	D17
## 798 female	31.00	0	0	349244	8.6833	
## 802 female	31.00	1	1	C.A. 31921	26.2500	
## 803 male	11.00	1	2	113760	120.0000	B96 B98
## 804 male	0.42	0	1	2625	8.5167	
## 805 male	27.00	0	0	347089	6.9750	
## 810 female	33.00	1	0	113806	53.1000	E8
## 821 female	52.00	1	1	12749	93.5000	B69
## 822 male	27.00	0	0	315098	8.6625	
## 824 female	27.00	0	1	392096	12.4750	E121
## 828 male	1.00	0	2	S.C./PARIS 2079	37.0042	
## 829 male	NA	0	0	367228	7.7500	
## 830 female	62.00	0	0	113572	80.0000	B28
## 831 female	15.00	1	0	2659	14.4542	
## 832 male	0.83	1	1	29106	18.7500	
## 836 female	39.00	1	1	PC 17756	83.1583	E49
## 839 male	32.00	0	0	1601	56.4958	
## 840 male	NA	0	0	11774	29.7000	C47
## 843 female	30.00	0	0	113798	31.0000	
## 850 female	NA	1	0	17453	89.1042	C92
## 854 female	16.00	0	1	PC 17592	39.4000	D28
## 856 female	18.00	0	1	392091	9.3500	
## 857 female	45.00	1	1	36928	164.8667	
## 858 male	51.00	0	0	113055	26.5500	E17
## 859 female	24.00	0	3	2666	19.2583	
## 863 female	48.00	0	0	17466	25.9292	D17
## 866 female	42.00	0	0	236852	13.0000	
## 867 female	27.00	1	0	SC/PARIS 2149	13.8583	
## 870 male	4.00	1	1	347742	11.1333	
## 872 female	47.00	1	1	11751	52.5542	D35
## 875 female	28.00	1	0	P/PP 3381	24.0000	
## 876 female	15.00	0	0	2667	7.2250	
## 880 female	56.00	0	1	11767	83.1583	C50
## 881 female	25.00	0	1	230433	26.0000	
## 888 female	19.00	0	0	112053	30.0000	B42
## 890 male	26.00	0	0	111369	30.0000	C148
##	Embarked					
## 2	C					
## 3	S					
## 4	S					
## 9	S					
## 10	C					
## 11	S					
## 12	S					
## 16	S					
## 18	S					
## 20	C					
## 22	S					
## 23	Q					
## 24	S					
## 26	S					

## 29	Q
## 32	C
## 33	Q
## 37	C
## 40	C
## 44	C
## 45	Q
## 48	Q
## 53	C
## 54	S
## 56	S
## 57	S
## 59	S
## 62	
## 66	C
## 67	S
## 69	S
## 75	S
## 79	S
## 80	S
## 82	S
## 83	Q
## 85	S
## 86	S
## 89	S
## 98	C
## 99	S
## 107	S
## 108	S
## 110	Q
## 124	S
## 126	C
## 128	S
## 129	C
## 134	S
## 137	S
## 142	S
## 143	S
## 147	S
## 152	S
## 157	Q
## 162	S
## 166	S
## 167	S
## 173	S
## 184	S
## 185	S
## 187	Q
## 188	S
## 191	S
## 193	S
## 194	S
## 195	C
## 196	C

## 199	Q
## 205	S
## 208	C
## 209	Q
## 210	C
## 212	S
## 216	C
## 217	S
## 219	C
## 221	S
## 225	S
## 227	S
## 231	S
## 234	S
## 238	S
## 242	Q
## 248	S
## 249	S
## 256	C
## 257	C
## 258	S
## 259	C
## 260	S
## 262	S
## 268	S
## 269	S
## 270	S
## 272	S
## 273	S
## 275	Q
## 276	S
## 280	S
## 284	S
## 287	S
## 289	S
## 290	Q
## 291	S
## 292	C
## 299	S
## 300	C
## 301	Q
## 302	Q
## 304	Q
## 306	S
## 307	C
## 308	C
## 310	C
## 311	C
## 312	C
## 316	S
## 317	S
## 319	S
## 320	C
## 323	Q

## 324	S
## 326	C
## 328	S
## 329	S
## 330	C
## 331	Q
## 335	S
## 338	C
## 339	S
## 341	S
## 342	S
## 346	S
## 347	S
## 348	S
## 349	S
## 357	S
## 359	Q
## 360	Q
## 367	C
## 368	C
## 369	Q
## 370	C
## 371	C
## 376	C
## 377	S
## 381	C
## 382	C
## 384	S
## 388	S
## 390	C
## 391	S
## 392	S
## 394	C
## 395	S
## 400	S
## 401	S
## 408	S
## 413	Q
## 415	S
## 417	S
## 418	S
## 427	S
## 428	S
## 430	S
## 431	S
## 432	S
## 433	S
## 436	S
## 438	S
## 441	S
## 444	S
## 445	S
## 446	S
## 447	S

## 448	S
## 449	C
## 450	S
## 454	C
## 456	C
## 458	S
## 459	S
## 461	S
## 470	C
## 473	S
## 474	C
## 480	S
## 484	S
## 485	C
## 487	S
## 490	S
## 497	C
## 505	S
## 507	S
## 508	S
## 510	S
## 511	Q
## 513	S
## 514	C
## 517	S
## 519	S
## 521	S
## 524	C
## 527	S
## 531	S
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## 538	C
## 540	C
## 541	S
## 544	S
## 547	S
## 548	C
## 550	S
## 551	C
## 554	C
## 555	S
## 557	C
## 559	S
## 560	S
## 570	S
## 571	S
## 572	S
## 573	S
## 574	Q
## 577	S
## 578	S
## 580	S
## 581	S

## 582	C
## 586	S
## 588	C
## 592	C
## 597	S
## 600	C
## 601	S
## 605	C
## 608	S
## 609	C
## 610	S
## 613	Q
## 616	S
## 619	S
## 622	S
## 623	C
## 628	S
## 631	S
## 633	C
## 636	S
## 642	C
## 644	S
## 645	C
## 646	C
## 648	C
## 650	S
## 652	S
## 654	Q
## 661	S
## 665	S
## 670	S
## 671	S
## 674	S
## 678	S
## 680	C
## 682	C
## 690	S
## 691	S
## 692	C
## 693	S
## 698	Q
## 701	C
## 702	S
## 707	S
## 708	S
## 709	S
## 710	C
## 711	C
## 713	S
## 717	C
## 718	S
## 721	S
## 725	S
## 727	S

## 728	Q
## 731	S
## 738	C
## 741	S
## 743	C
## 745	S
## 748	S
## 751	S
## 752	S
## 755	S
## 756	S
## 760	S
## 763	C
## 764	S
## 766	S
## 775	S
## 778	S
## 780	S
## 781	C
## 782	S
## 787	S
## 789	S
## 797	S
## 798	S
## 802	S
## 803	S
## 804	C
## 805	S
## 810	S
## 821	S
## 822	S
## 824	S
## 828	C
## 829	Q
## 830	
## 831	C
## 832	S
## 836	C
## 839	S
## 840	C
## 843	C
## 850	C
## 854	S
## 856	S
## 857	S
## 858	S
## 859	C
## 863	S
## 866	S
## 867	C
## 870	S
## 872	S
## 875	C
## 876	C

```
## 880      C
## 881      S
## 888      S
## 890      C
```

```
print(NotSurvived)
```

```
##      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            38         0        3
## 39            39         0        3
## 41            41         0        3
## 42            42         0        2
## 43            43         0        3
## 46            46         0        3
## 47            47         0        3
## 49            49         0        3
## 50            50         0        3
## 51            51         0        3
## 52            52         0        3
## 55            55         0        1
## 58            58         0        3
## 60            60         0        3
## 61            61         0        3
## 63            63         0        1
## 64            64         0        3
## 65            65         0        1
## 68            68         0        3
## 70            70         0        3
## 71            71         0        2
## 72            72         0        3
## 73            73         0        2
## 74            74         0        3
## 76            76         0        3
## 77            77         0        3
## 78            78         0        3
## 81            81         0        3
```

## 84	84	0	1
## 87	87	0	3
## 88	88	0	3
## 90	90	0	3
## 91	91	0	3
## 92	92	0	3
## 93	93	0	1
## 94	94	0	3
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## 103	103	0	1
## 104	104	0	3
## 105	105	0	3
## 106	106	0	3
## 109	109	0	3
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## 112	112	0	3
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## 117	117	0	3
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## 120	120	0	3
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## 122	122	0	3
## 123	123	0	2
## 125	125	0	1
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## 130	130	0	3
## 131	131	0	3
## 132	132	0	3
## 133	133	0	3
## 135	135	0	2
## 136	136	0	2
## 138	138	0	1
## 139	139	0	3
## 140	140	0	1
## 141	141	0	3
## 144	144	0	3
## 145	145	0	2
## 146	146	0	2
## 148	148	0	3
## 149	149	0	2
## 150	150	0	2
## 151	151	0	2
## 153	153	0	3
## 154	154	0	3
## 155	155	0	3

## 156	156	0	1
## 158	158	0	3
## 159	159	0	3
## 160	160	0	3
## 161	161	0	3
## 163	163	0	3
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## 175	175	0	1
## 176	176	0	3
## 177	177	0	3
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## 255	255	0	3
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## 364	364	0	3
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## 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
## 771	771	0	3
## 772	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
## 849	849	0	2
## 851	851	0	3
## 852	852	0	3
## 853	853	0	3
## 855	855	0	2
## 860	860	0	3
## 861	861	0	3
## 862	862	0	2
## 864	864	0	3
## 865	865	0	2

## 868	868	0	1
## 869	869	0	3
## 871	871	0	3
## 873	873	0	1
## 874	874	0	3
## 877	877	0	3
## 878	878	0	3
## 879	879	0	3
## 882	882	0	3
## 883	883	0	3
## 884	884	0	2
## 885	885	0	3
## 886	886	0	3
## 887	887	0	2
## 889	889	0	3
## 891	891	0	3

##		Name	Sex	Age	SibSp
## 1		Braund, Mr. Owen Harris	male	22.0	1
## 5		Allen, Mr. William Henry	male	35.0	0
## 6		Moran, Mr. James	male	NA	0
## 7		McCarthy, Mr. Timothy J	male	54.0	0
## 8		Palsson, Master. Gosta Leonard	male	2.0	3
## 13		Saunderscock, Mr. William Henry	male	20.0	0
## 14		Andersson, Mr. Anders Johan	male	39.0	1
## 15		Vestrom, Miss. Hulda Amanda Adolfina	female	14.0	0
## 17		Rice, Master. Eugene	male	2.0	4
## 19	Vander Planke, Mrs. Julius (Emelia Maria Vandemoortele)		female	31.0	1
## 21		Fynney, Mr. Joseph J	male	35.0	0
## 25		Palsson, Miss. Torborg Danira	female	8.0	3
## 27		Emir, Mr. Farred Chehab	male	NA	0
## 28		Fortune, Mr. Charles Alexander	male	19.0	3
## 30		Todoroff, Mr. Lalio	male	NA	0
## 31		Uruchurtu, Don. Manuel E	male	40.0	0
## 34		Wheadon, Mr. Edward H	male	66.0	0
## 35		Meyer, Mr. Edgar Joseph	male	28.0	1
## 36		Holverson, Mr. Alexander Oskar	male	42.0	1
## 38		Cann, Mr. Ernest Charles	male	21.0	0
## 39		Vander Planke, Miss. Augusta Maria	female	18.0	2
## 41	Ahlin, Mrs. Johan (Johanna Persdotter Larsson)		female	40.0	1
## 42	Turpin, Mrs. William John Robert (Dorothy Ann Wonnacott)		female	27.0	1
## 43		Kraeff, Mr. Theodor	male	NA	0
## 46		Rogers, Mr. William John	male	NA	0
## 47		Lennon, Mr. Denis	male	NA	1
## 49		Samaan, Mr. Youssef	male	NA	2
## 50	Arnold-Franchi, Mrs. Josef (Josefine Franchi)		female	18.0	1
## 51		Panula, Master. Juha Niilo	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	0

## 68	Crease, Mr. Ernest James	male	19.0	0
## 70	Kink, Mr. Vincenz	male	26.0	2
## 71	Jenkin, Mr. Stephen Curnow	male	32.0	0
## 72	Goodwin, Miss. Lillian Amy	female	16.0	5
## 73	Hood, Mr. Ambrose Jr	male	21.0	0
## 74	Chronopoulos, Mr. Apostolos	male	26.0	1
## 76	Moen, Mr. Sigurd Hansen	male	25.0	0
## 77	Staneff, Mr. Ivan	male	NA	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	0
## 87	Ford, Mr. William Neal	male	16.0	1
## 88	Slocovski, Mr. Selman Francis	male	NA	0
## 90	Celotti, Mr. Francesco	male	24.0	0
## 91	Christmann, Mr. Emil	male	29.0	0
## 92	Andreasson, Mr. Paul Edvin	male	20.0	0
## 93	Chaffee, Mr. Herbert Fuller	male	46.0	1
## 94	Dean, Mr. Bertram Frank	male	26.0	1
## 95	Coxon, Mr. Daniel	male	59.0	0
## 96	Shorney, Mr. Charles Joseph	male	NA	0
## 97	Goldschmidt, Mr. George B	male	71.0	0
## 100	Kantor, Mr. Sinai	male	34.0	1
## 101	Petranec, Miss. Matilda	female	28.0	0
## 102	Petroff, Mr. Pastcho ("Pentcho")	male	NA	0
## 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	Rekic, Mr. Tido	male	38.0	0
## 111	Porter, Mr. Walter Chamberlain	male	47.0	0
## 112	Zabour, Miss. Hileni	female	14.5	1
## 113	Barton, Mr. David John	male	22.0	0
## 114	Jussila, Miss. Katriina	female	20.0	1
## 115	Attalah, Miss. Malake	female	17.0	0
## 116	Pekoniemi, Mr. Edvard	male	21.0	0
## 117	Connors, Mr. Patrick	male	70.5	0
## 118	Turpin, Mr. William John Robert	male	29.0	1
## 119	Baxter, Mr. Quigg Edmond	male	24.0	0
## 120	Andersson, Miss. Ellis Anna Maria	female	2.0	4
## 121	Hickman, Mr. Stanley George	male	21.0	2
## 122	Moore, Mr. Leonard Charles	male	NA	0
## 123	Nasser, Mr. Nicholas	male	32.5	1
## 125	White, Mr. Percival Wayland	male	54.0	0
## 127	McMahon, Mr. Martin	male	NA	0
## 130	Ekstrom, Mr. Johan	male	45.0	0
## 131	Drazenoic, Mr. Jozef	male	33.0	0
## 132	Coelho, Mr. Domingos Fernando	male	20.0	0
## 133	Robins, Mrs. Alexander A (Grace Charity Laury)	female	47.0	1
## 135	Sobey, Mr. Samuel James Hayden	male	25.0	0
## 136	Richard, Mr. Emile	male	23.0	0
## 138	Futrelle, Mr. Jacques Heath	male	37.0	1
## 139	Osen, Mr. Olaf Elon	male	16.0	0
## 140	Giglio, Mr. Victor	male	24.0	0
## 141	Boulos, Mrs. Joseph (Sultana)	female	NA	0

## 144	Burke, Mr. Jeremiah	male	19.0	0
## 145	Andrew, Mr. Edgardo Samuel	male	18.0	0
## 146	Nicholls, Mr. Joseph Charles	male	19.0	1
## 148	Ford, Miss. Robina Maggie "Ruby"	female	9.0	2
## 149	Navratil, Mr. Michel ("Louis M Hoffman")	male	36.5	0
## 150	Byles, Rev. Thomas Roussel Davids	male	42.0	0
## 151	Bateman, Rev. Robert James	male	51.0	0
## 153	Meo, Mr. Alfonzo	male	55.5	0
## 154	van Billiard, Mr. Austin Blyler	male	40.5	0
## 155	Olsen, Mr. Ole Martin	male	NA	0
## 156	Williams, Mr. Charles Duane	male	51.0	0
## 158	Corn, Mr. Harry	male	30.0	0
## 159	Smiljanic, Mr. Mile	male	NA	0
## 160	Sage, Master. Thomas Henry	male	NA	8
## 161	Cribb, Mr. John Hatfield	male	44.0	0
## 163	Bengtsson, Mr. John Viktor	male	26.0	0
## 164	Calic, Mr. Jovo	male	17.0	0
## 165	Panula, Master. Eino Viljami	male	1.0	4
## 168	Skoog, Mrs. William (Anna Bernhardina Karlsson)	female	45.0	1
## 169	Baumann, Mr. John D	male	NA	0
## 170	Ling, Mr. Lee	male	28.0	0
## 171	Van der hoef, Mr. Wyckoff	male	61.0	0
## 172	Rice, Master. Arthur	male	4.0	4
## 174	Sivola, Mr. Antti Wilhelm	male	21.0	0
## 175	Smith, Mr. James Clinch	male	56.0	0
## 176	Klasen, Mr. Klas Albin	male	18.0	1
## 177	Lefebvre, Master. Henry Forbes	male	NA	3
## 178	Isham, Miss. Ann Elizabeth	female	50.0	0
## 179	Hale, Mr. Reginald	male	30.0	0
## 180	Leonard, Mr. Lionel	male	36.0	0
## 181	Sage, Miss. Constance Gladys	female	NA	8
## 182	Pernot, Mr. Rene	male	NA	0
## 183	Asplund, Master. Clarence Gustaf Hugo	male	9.0	4
## 186	Rood, Mr. Hugh Roscoe	male	NA	0
## 189	Bourke, Mr. John	male	40.0	1
## 190	Turcin, Mr. Stjepan	male	36.0	0
## 192	Carbines, Mr. William	male	19.0	0
## 197	Mernagh, Mr. Robert	male	NA	0
## 198	Olsen, Mr. Karl Siegwart Andreas	male	42.0	0
## 200	Yrois, Miss. Henriette ("Mrs Harbeck")	female	24.0	0
## 201	Vande Walle, Mr. Nestor Cyriel	male	28.0	0
## 202	Sage, Mr. Frederick	male	NA	8
## 203	Johanson, Mr. Jakob Alfred	male	34.0	0
## 204	Youseff, Mr. Gerious	male	45.5	0
## 206	Strom, Miss. Telma Matilda	female	2.0	0
## 207	Backstrom, Mr. Karl Alfred	male	32.0	1
## 211	Ali, Mr. Ahmed	male	24.0	0
## 213	Perkin, Mr. John Henry	male	22.0	0
## 214	Givard, Mr. Hans Kristensen	male	30.0	0
## 215	Kiernan, Mr. Philip	male	NA	1
## 218	Jacobsohn, Mr. Sidney Samuel	male	42.0	1
## 220	Harris, Mr. Walter	male	30.0	0
## 222	Bracken, Mr. James H	male	27.0	0
## 223	Green, Mr. George Henry	male	51.0	0

## 224	Nenkoff, Mr. Christo	male	NA	0
## 226	Berglund, Mr. Karl Ivar Sven	male	22.0	0
## 228	Lovell, Mr. John Hall ("Henry")	male	20.5	0
## 229	Fahlstrom, Mr. Arne Jonas	male	18.0	0
## 230	Lefebre, Miss. Mathilde	female	NA	3
## 232	Larsson, Mr. Bengt Edvin	male	29.0	0
## 233	Sjostedt, Mr. Ernst Adolf	male	59.0	0
## 235	Leyson, Mr. Robert William Norman	male	24.0	0
## 236	Harknett, Miss. Alice Phoebe	female	NA	0
## 237	Hold, Mr. Stephen	male	44.0	1
## 239	Pengelly, Mr. Frederick William	male	19.0	0
## 240	Hunt, Mr. George Henry	male	33.0	0
## 241	Zabour, Miss. Thamine	female	NA	1
## 243	Coleridge, Mr. Reginald Charles	male	29.0	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	0
## 250	Carter, Rev. Ernest Courtenay	male	54.0	1
## 251	Reed, Mr. James George	male	NA	0
## 252	Strom, Mrs. Wilhelm (Elna Matilda Persson)	female	29.0	1
## 253	Stead, Mr. William Thomas	male	62.0	0
## 254	Lobb, Mr. William Arthur	male	30.0	1
## 255	Rosblom, Mrs. Viktor (Helena Wilhelmina)	female	41.0	0
## 261	Smith, Mr. Thomas	male	NA	0
## 263	Taussig, Mr. Emil	male	52.0	1
## 264	Harrison, Mr. William	male	40.0	0
## 265	Henry, Miss. Delia	female	NA	0
## 266	Reeves, Mr. David	male	36.0	0
## 267	Panula, Mr. Ernesti Arvid	male	16.0	4
## 271	Cairns, Mr. Alexander	male	NA	0
## 274	Natsch, Mr. Charles H	male	37.0	0
## 277	Lindblom, Miss. Augusta Charlotta	female	45.0	0
## 278	Parkes, Mr. Francis "Frank"	male	NA	0
## 279	Rice, Master. Eric	male	7.0	4
## 281	Duane, Mr. Frank	male	65.0	0
## 282	Olsson, Mr. Nils Johan Goransson	male	28.0	0
## 283	de Pelsmaeker, Mr. Alfons	male	16.0	0
## 285	Smith, Mr. Richard William	male	NA	0
## 286	Stankovic, Mr. Ivan	male	33.0	0
## 288	Naidenoff, Mr. Penko	male	22.0	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	0
## 297	Hanna, Mr. Mansour	male	23.5	0
## 298	Allison, Miss. Helen Loraine	female	2.0	1
## 303	Johnson, Mr. William Cahoon Jr	male	19.0	0
## 305	Williams, Mr. Howard Hugh "Harry"	male	NA	0
## 309	Abelson, Mr. Samuel	male	30.0	1
## 313	Lahtinen, Mrs. William (Anna Sylfven)	female	26.0	1
## 314	Hendekovic, Mr. Ignjac	male	28.0	0
## 315	Hart, Mr. Benjamin	male	43.0	1
## 318	Moraweck, Dr. Ernest	male	54.0	0

## 321	Dennis, Mr. Samuel	male	22.0	0
## 322	Danoff, Mr. Yoto	male	27.0	0
## 325	Sage, Mr. George John Jr	male	NA	8
## 327	Nysveen, Mr. Johan Hansen	male	61.0	0
## 332	Partner, Mr. Austen	male	45.5	0
## 333	Graham, Mr. George Edward	male	38.0	0
## 334	Vander Planke, Mr. Leo Edmondus	male	16.0	2
## 336	Denkoff, Mr. Mitto	male	NA	0
## 337	Pears, Mr. Thomas Clinton	male	29.0	1
## 340	Blackwell, Mr. Stephen Weart	male	45.0	0
## 343	Collander, Mr. Erik Gustaf	male	28.0	0
## 344	Sedgwick, Mr. Charles Frederick Waddington	male	25.0	0
## 345	Fox, Mr. Stanley Hubert	male	36.0	0
## 350	Dimic, Mr. Jovan	male	42.0	0
## 351	Odahl, Mr. Nils Martin	male	23.0	0
## 352	Williams-Lambert, Mr. Fletcher Fellows	male	NA	0
## 353	Elias, Mr. Tannous	male	15.0	1
## 354	Arnold-Franchi, Mr. Josef	male	25.0	1
## 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	0
## 361	Skoog, Mr. Wilhelm	male	40.0	1
## 362	del Carlo, Mr. Sebastiano	male	29.0	1
## 363	Barbara, Mrs. (Catherine David)	female	45.0	0
## 364	Asim, Mr. Adola	male	35.0	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	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	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	0
## 387	Goodwin, Master. Sidney Leonard	male	1.0	5
## 389	Sadlier, Mr. Matthew	male	NA	0
## 393	Gustafsson, Mr. Johan Birger	male	28.0	2
## 396	Johansson, Mr. Erik	male	22.0	0
## 397	Olsson, Miss. Elina	female	31.0	0
## 398	McKane, Mr. Peter David	male	46.0	0
## 399	Pain, Dr. Alfred	male	23.0	0
## 402	Adams, Mr. John	male	26.0	0
## 403	Jussila, Miss. Mari Aina	female	21.0	1
## 404	Hakkarainen, Mr. Pekka Pietari	male	28.0	1
## 405	Oreskovic, Miss. Marija	female	20.0	0
## 406	Gale, Mr. Shadrach	male	34.0	1
## 407	Widegren, Mr. Carl/Charles Peter	male	51.0	0
## 409	Birkeland, Mr. Hans Martin Monsen	male	21.0	0
## 410	Lefebvre, Miss. Ida	female	NA	3
## 411	Sdycoff, Mr. Todor	male	NA	0
## 412	Hart, Mr. Henry	male	NA	0

## 414	Cunningham, Mr. Alfred Fleming	male	NA	0
## 416	Meek, Mrs. Thomas (Annie Louise Rowley)	female	NA	0
## 419	Matthews, Mr. William John	male	30.0	0
## 420	Van Impe, Miss. Catharina	female	10.0	0
## 421	Gheorgheff, Mr. Stanio	male	NA	0
## 422	Charters, Mr. David	male	21.0	0
## 423	Zimmerman, Mr. Leo	male	29.0	0
## 424	Danbom, Mrs. Ernst Gilbert (Anna Sigrid Maria Brogren)	female	28.0	1
## 425	Rosblom, Mr. Viktor Richard	male	18.0	1
## 426	Wiseman, Mr. Phillippe	male	NA	0
## 429	Flynn, Mr. James	male	NA	0
## 434	Kallio, Mr. Nikolai Erland	male	17.0	0
## 435	Silvey, Mr. William Baird	male	50.0	1
## 437	Ford, Miss. Doolina Margaret "Daisy"	female	21.0	2
## 439	Fortune, Mr. Mark	male	64.0	1
## 440	Kvillner, Mr. Johan Henrik Johannesson	male	31.0	0
## 442	Hampe, Mr. Leon	male	20.0	0
## 443	Petterson, Mr. Johan Emil	male	25.0	1
## 451	West, Mr. Edwy Arthur	male	36.0	1
## 452	Hagland, Mr. Ingvald Olai Olsen	male	NA	1
## 453	Foreman, Mr. Benjamin Laventall	male	30.0	0
## 455	Peduzzi, Mr. Joseph	male	NA	0
## 457	Millet, Mr. Francis Davis	male	65.0	0
## 460	O'Connor, Mr. Maurice	male	NA	0
## 462	Morley, Mr. William	male	34.0	0
## 463	Gee, Mr. Arthur H	male	47.0	0
## 464	Milling, Mr. Jacob Christian	male	48.0	0
## 465	Maisner, Mr. Simon	male	NA	0
## 466	Goncalves, Mr. Manuel Estanslas	male	38.0	0
## 467	Campbell, Mr. William	male	NA	0
## 468	Smart, Mr. John Montgomery	male	56.0	0
## 469	Scanlan, Mr. James	male	NA	0
## 471	Keefe, Mr. Arthur	male	NA	0
## 472	Cacic, Mr. Luka	male	38.0	0
## 475	Strandberg, Miss. Ida Sofia	female	22.0	0
## 476	Clifford, Mr. George Quincy	male	NA	0
## 477	Renouf, Mr. Peter Henry	male	34.0	1
## 478	Braund, Mr. Lewis Richard	male	29.0	1
## 479	Karlsson, Mr. Nils August	male	22.0	0
## 481	Goodwin, Master. Harold Victor	male	9.0	5
## 482	Frost, Mr. Anthony Wood "Archie"	male	NA	0
## 483	Rouse, Mr. Richard Henry	male	50.0	0
## 486	Lefebre, Miss. Jeannie	female	NA	3
## 488	Kent, Mr. Edward Austin	male	58.0	0
## 489	Somerton, Mr. Francis William	male	30.0	0
## 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	0
## 494	Artagaveytia, Mr. Ramon	male	71.0	0
## 495	Stanley, Mr. Edward Roland	male	21.0	0
## 496	Yousseff, Mr. Gerious	male	NA	0
## 498	Shellard, Mr. Frederick William	male	NA	0
## 499	Allison, Mrs. Hudson J C (Bessie Waldo Daniels)	female	25.0	1
## 500	Svensson, Mr. Olof	male	24.0	0

## 501	Calic, Mr. Petar	male	17.0	0
## 502	Canavan, Miss. Mary	female	21.0	0
## 503	O'Sullivan, Miss. Bridget Mary	female	NA	0
## 504	Laitinen, Miss. Kristina Sofia	female	37.0	0
## 506	Penasco y Castellana, Mr. Victor de Satode	male	18.0	1
## 509	Olsen, Mr. Henry Margido	male	28.0	0
## 512	Webber, Mr. James	male	NA	0
## 515	Coleff, Mr. Satio	male	24.0	0
## 516	Walker, Mr. William Anderson	male	47.0	0
## 518	Ryan, Mr. Patrick	male	NA	0
## 520	Pavlovic, Mr. Stefo	male	32.0	0
## 522	Vovk, Mr. Janko	male	22.0	0
## 523	Lahoud, Mr. Sarkis	male	NA	0
## 525	Kassem, Mr. Fared	male	NA	0
## 526	Farrell, Mr. James	male	40.5	0
## 528	Farthing, Mr. John	male	NA	0
## 529	Salonen, Mr. Johan Werner	male	39.0	0
## 530	Hocking, Mr. Richard George	male	23.0	2
## 532	Toufik, Mr. Nakli	male	NA	0
## 533	Elias, Mr. Joseph Jr	male	17.0	1
## 535	Cacic, Miss. Marija	female	30.0	0
## 537	Butt, Major. Archibald Willingham	male	45.0	0
## 539	Risien, Mr. Samuel Beard	male	NA	0
## 542	Andersson, Miss. Ingeborg Constanzia	female	9.0	4
## 543	Andersson, Miss. Sigrid Elisabeth	female	11.0	4
## 545	Douglas, Mr. Walter Donald	male	50.0	1
## 546	Nicholson, Mr. Arthur Ernest	male	64.0	0
## 549	Goldsmith, Mr. Frank John	male	33.0	1
## 552	Sharp, Mr. Percival James R	male	27.0	0
## 553	O'Brien, Mr. Timothy	male	NA	0
## 556	Wright, Mr. George	male	62.0	0
## 558	Robbins, Mr. Victor	male	NA	0
## 561	Morrow, Mr. Thomas Rowan	male	NA	0
## 562	Sivic, Mr. Husein	male	40.0	0
## 563	Norman, Mr. Robert Douglas	male	28.0	0
## 564	Simmons, Mr. John	male	NA	0
## 565	Meanwell, Miss. (Marion Ogden)	female	NA	0
## 566	Davies, Mr. Alfred J	male	24.0	2
## 567	Stoytcheff, Mr. Ilia	male	19.0	0
## 568	Palsson, Mrs. Nils (Alma Cornelia Berglund)	female	29.0	0
## 569	Doharr, Mr. Tannous	male	NA	0
## 575	Rush, Mr. Alfred George John	male	16.0	0
## 576	Patchett, Mr. George	male	19.0	0
## 579	Caram, Mrs. Joseph (Maria Elias)	female	NA	1
## 583	Downton, Mr. William James	male	54.0	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	0
## 589	Gilinski, Mr. Eliezer	male	22.0	0
## 590	Murdlin, Mr. Joseph	male	NA	0
## 591	Rintamaki, Mr. Matti	male	35.0	0
## 593	Elsbury, Mr. William James	male	47.0	0
## 594	Bourke, Miss. Mary	female	NA	0
## 595	Chapman, Mr. John Henry	male	37.0	1

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

## 681	Peters, Miss. Katie	female	NA	0
## 683	Olsvigen, Mr. Thor Anderson	male	20.0	0
## 684	Goodwin, Mr. Charles Edward	male	14.0	5
## 685	Brown, Mr. Thomas William Solomon	male	60.0	1
## 686	Laroche, Mr. Joseph Philippe Lemercier	male	25.0	1
## 687	Panula, Mr. Jaako Arnold	male	14.0	4
## 688	Dakic, Mr. Branko	male	19.0	0
## 689	Fischer, Mr. Eberhard Thelander	male	18.0	0
## 694	Saad, Mr. Khalil	male	25.0	0
## 695	Weir, Col. John	male	60.0	0
## 696	Chapman, Mr. Charles Henry	male	52.0	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	0
## 703	Barbara, Miss. Saiide	female	18.0	0
## 704	Gallagher, Mr. Martin	male	25.0	0
## 705	Hansen, Mr. Henrik Juul	male	26.0	1
## 706	Morley, Mr. Henry Samuel ("Mr Henry Marshall")	male	39.0	0
## 712	Klaber, Mr. Herman	male	NA	0
## 714	Larsson, Mr. August Viktor	male	29.0	0
## 715	Greenberg, Mr. Samuel	male	52.0	0
## 716	Soholt, Mr. Peter Andreas Lauritz Andersen	male	19.0	0
## 719	McEvoy, Mr. Michael	male	NA	0
## 720	Johnson, Mr. Malkolm Joackim	male	33.0	0
## 722	Jensen, Mr. Svend Lauritz	male	17.0	1
## 723	Gillespie, Mr. William Henry	male	34.0	0
## 724	Hodges, Mr. Henry Price	male	50.0	0
## 726	Oreskovic, Mr. Luka	male	20.0	0
## 729	Bryhl, Mr. Kurt Arnold Gottfrid	male	25.0	1
## 730	Ilmakangas, Miss. Pieta Sofia	female	25.0	1
## 732	Hassan, Mr. Houssein G N	male	11.0	0
## 733	Knight, Mr. Robert J	male	NA	0
## 734	Berriman, Mr. William John	male	23.0	0
## 735	Troupiansky, Mr. Moses Aaron	male	23.0	0
## 736	Williams, Mr. Leslie	male	28.5	0
## 737	Ford, Mrs. Edward (Margaret Ann Watson)	female	48.0	1
## 739	Ivanoff, Mr. Kanio	male	NA	0
## 740	Nankoff, Mr. Minko	male	NA	0
## 742	Cavendish, Mr. Tyrell William	male	36.0	1
## 744	McNamee, Mr. Neal	male	24.0	1
## 746	Crosby, Capt. Edward Gifford	male	70.0	1
## 747	Abbott, Mr. Rossmore Edward	male	16.0	1
## 749	Marvin, Mr. Daniel Warner	male	19.0	1
## 750	Connaghton, Mr. Michael	male	31.0	0
## 753	Vande Velde, Mr. Johannes Joseph	male	33.0	0
## 754	Jonkoff, Mr. Lallo	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	NA	0
## 768	Mangan, Miss. Mary	female	30.5	0

## 769	Moran, Mr. Daniel J	male	NA	1
## 770	Gronnestad, Mr. Daniel Danielsen	male	32.0	0
## 771	Lievens, Mr. Rene Aime	male	24.0	0
## 772	Jensen, Mr. Niels Peder	male	48.0	0
## 773	Mack, Mrs. (Mary)	female	57.0	0
## 774	Elias, Mr. Dibo	male	NA	0
## 776	Myhrman, Mr. Pehr Fabian Oliver Malkolm	male	18.0	0
## 777	Tobin, Mr. Roger	male	NA	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	4
## 790	Guggenheim, Mr. Benjamin	male	46.0	0
## 791	Keane, Mr. Andrew "Andy"	male	NA	0
## 792	Gaskell, Mr. Alfred	male	16.0	0
## 793	Sage, Miss. Stella Anna	female	NA	8
## 794	Hoyt, Mr. William Fisher	male	NA	0
## 795	Dantcheff, Mr. Ristiu	male	25.0	0
## 796	Otter, Mr. Richard	male	39.0	0
## 799	Ibrahim Shawah, Mr. Yousseff	male	30.0	0
## 800	Van Impe, Mrs. Jean Baptiste (Rosalie Paula Govaert)	female	30.0	1
## 801	Ponesell, Mr. Martin	male	34.0	0
## 806	Johansson, Mr. Karl Johan	male	31.0	0
## 807	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	Alexander, Mr. William	male	26.0	0
## 812	Lester, Mr. James	male	39.0	0
## 813	Slemen, Mr. Richard James	male	35.0	0
## 814	Andersson, Miss. Ebba Iris Alfrida	female	6.0	4
## 815	Tomlin, Mr. Ernest Portage	male	30.5	0
## 816	Fry, Mr. Richard	male	NA	0
## 817	Heininen, Miss. Wendla Maria	female	23.0	0
## 818	Mallet, Mr. Albert	male	31.0	1
## 819	Holm, Mr. John Fredrik Alexander	male	43.0	0
## 820	Skoog, Master. Karl Thorsten	male	10.0	3
## 823	Reuchlin, Jonkheer. John George	male	38.0	0
## 825	Panula, Master. Urho Abraham	male	2.0	4
## 826	Flynn, Mr. John	male	NA	0
## 827	Lam, Mr. Len	male	NA	0
## 833	Saad, Mr. Amin	male	NA	0
## 834	Augustsson, Mr. Albert	male	23.0	0
## 835	Allum, Mr. Owen George	male	18.0	0
## 837	Pasic, Mr. Jakob	male	21.0	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	Culumovic, Mr. Jeso	male	17.0	0
## 846	Abbing, Mr. Anthony	male	42.0	0
## 847	Sage, Mr. Douglas Bullen	male	NA	8
## 848	Markoff, Mr. Marin	male	35.0	0

## 849		Harper, Rev. John	male	28.0	0
## 851		Andersson, Master. Sigvard Harald Elias	male	4.0	4
## 852		Svensson, Mr. Johan	male	74.0	0
## 853		Boulos, Miss. Nourelain	female	9.0	1
## 855		Carter, Mrs. Ernest Courtenay (Lilian Hughes)	female	44.0	1
## 860		Razi, Mr. Raihed	male	NA	0
## 861		Hansen, Mr. Claus Peter	male	41.0	2
## 862		Giles, Mr. Frederick Edward	male	21.0	1
## 864		Sage, Miss. Dorothy Edith "Dolly"	female	NA	8
## 865		Gill, Mr. John William	male	24.0	0
## 868		Roebbing, Mr. Washington Augustus II	male	31.0	0
## 869		van Melkebeke, Mr. Philemon	male	NA	0
## 871		Balkic, Mr. Cerin	male	26.0	0
## 873		Carlsson, Mr. Frans Olof	male	33.0	0
## 874		Vander Cruyssen, Mr. Victor	male	47.0	0
## 877		Gustafsson, Mr. Alfred Ossian	male	20.0	0
## 878		Petroff, Mr. Nedelio	male	19.0	0
## 879		Laleff, Mr. Kristo	male	NA	0
## 882		Markun, Mr. Johann	male	33.0	0
## 883		Dahlberg, Miss. Gerda Ulrika	female	22.0	0
## 884		Banfield, Mr. Frederick James	male	28.0	0
## 885		Sutehall, Mr. Henry Jr	male	25.0	0
## 886		Rice, Mrs. William (Margaret Norton)	female	39.0	0
## 887		Montvila, Rev. Juozas	male	27.0	0
## 889		Johnston, Miss. Catherine Helen "Carrie"	female	NA	1
## 891		Dooley, Mr. Patrick	male	32.0	0
##	Parch	Ticket	Fare	Cabin Embarked	
## 1	0	A/5 21171	7.2500	S	
## 5	0	373450	8.0500	S	
## 6	0	330877	8.4583	Q	
## 7	0	17463	51.8625	E46	S
## 8	1	349909	21.0750	S	
## 13	0	A/5. 2151	8.0500	S	
## 14	5	347082	31.2750	S	
## 15	0	350406	7.8542	S	
## 17	1	382652	29.1250	Q	
## 19	0	345763	18.0000	S	
## 21	0	239865	26.0000	S	
## 25	1	349909	21.0750	S	
## 27	0	2631	7.2250	C	
## 28	2	19950	263.0000	C23 C25 C27	S
## 30	0	349216	7.8958	S	
## 31	0	PC 17601	27.7208	C	
## 34	0	C.A. 24579	10.5000	S	
## 35	0	PC 17604	82.1708	C	
## 36	0	113789	52.0000	S	
## 38	0	A./5. 2152	8.0500	S	
## 39	0	345764	18.0000	S	
## 41	0	7546	9.4750	S	
## 42	0	11668	21.0000	S	
## 43	0	349253	7.8958	C	
## 46	0	S.C./A.4. 23567	8.0500	S	
## 47	0	370371	15.5000	Q	
## 49	0	2662	21.6792	C	

## 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		C
## 60	2	CA 2144	46.9000		S
## 61	0	2669	7.2292		C
## 63	0	36973	83.4750	C83	S
## 64	2	347088	27.9000		S
## 65	0	PC 17605	27.7208		C
## 68	0	S.P. 3464	8.1583		S
## 70	0	315151	8.6625		S
## 71	0	C.A. 33111	10.5000		S
## 72	2	CA 2144	46.9000		S
## 73	0	S.O.C. 14879	73.5000		S
## 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		C
## 113	0	324669	8.0500		S
## 114	0	4136	9.8250		S
## 115	0	2627	14.4583		C
## 116	0	STON/O 2. 3101294	7.9250		S
## 117	0	370369	7.7500		Q
## 118	0	11668	21.0000		S
## 119	1	PC 17558	247.5208	B58 B60	C
## 120	2	347082	31.2750		S
## 121	0	S.O.C. 14879	73.5000		S
## 122	0	A4. 54510	8.0500		S
## 123	0	237736	30.0708		C
## 125	1	35281	77.2875	D26	S
## 127	0	370372	7.7500		Q

## 130	0	347061	6.9750		S
## 131	0	349241	7.8958		C
## 132	0	SOTON/O.Q. 3101307	7.0500		S
## 133	0	A/5. 3337	14.5000		S
## 135	0	C.A. 29178	13.0000		S
## 136	0	SC/PARIS 2133	15.0458		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		C

##	206	1	347054	10.4625	G6	S
##	207	0	3101278	15.8500		S
##	211	0	SOTON/O.Q. 3101311	7.0500		S
##	213	0	A/5 21174	7.2500		S
##	214	0	250646	13.0000		S
##	215	0	367229	7.7500		Q
##	218	0	243847	27.0000		S
##	220	0	W/C 14208	10.5000		S
##	222	0	220367	13.0000		S
##	223	0	21440	8.0500		S
##	224	0	349234	7.8958		S
##	226	0	PP 4348	9.3500		S
##	228	0	A/5 21173	7.2500		S
##	229	0	236171	13.0000		S
##	230	1	4133	25.4667		S
##	232	0	347067	7.7750		S
##	233	0	237442	13.5000		S
##	235	0	C.A. 29566	10.5000		S
##	236	0	W./C. 6609	7.5500		S
##	237	0	26707	26.0000		S
##	239	0	28665	10.5000		S
##	240	0	SCD/W 1585	12.2750		S
##	241	0	2665	14.4542		C
##	243	0	W./C. 14263	10.5000		S
##	244	0	STON/O 2. 3101275	7.1250		S
##	245	0	2694	7.2250		C
##	246	0	19928	90.0000	C78	Q
##	247	0	347071	7.7750		S
##	250	0	244252	26.0000		S
##	251	0	362316	7.2500		S
##	252	1	347054	10.4625	G6	S
##	253	0	113514	26.5500	C87	S
##	254	0	A/5. 3336	16.1000		S
##	255	2	370129	20.2125		S
##	261	0	384461	7.7500		Q
##	263	1	110413	79.6500	E67	S
##	264	0	112059	0.0000	B94	S
##	265	0	382649	7.7500		Q
##	266	0	C.A. 17248	10.5000		S
##	267	1	3101295	39.6875		S
##	271	0	113798	31.0000		S
##	274	1	PC 17596	29.7000	C118	C
##	277	0	347073	7.7500		S
##	278	0	239853	0.0000		S
##	279	1	382652	29.1250		Q
##	281	0	336439	7.7500		Q
##	282	0	347464	7.8542		S
##	283	0	345778	9.5000		S
##	285	0	113056	26.0000	A19	S
##	286	0	349239	8.6625		C
##	288	0	349206	7.8958		S
##	293	0	SC/Paris 2163	12.8750	D	C
##	294	0	349236	8.8500		S
##	295	0	349233	7.8958		S

##	296	0	PC 17612	27.7208		C
##	297	0	2693	7.2292		C
##	298	2	113781	151.5500	C22 C26	S
##	303	0	LINE	0.0000		S
##	305	0	A/5 2466	8.0500		S
##	309	0	P/PP 3381	24.0000		C
##	313	1	250651	26.0000		S
##	314	0	349243	7.8958		S
##	315	1	F.C.C. 13529	26.2500		S
##	318	0	29011	14.0000		S
##	321	0	A/5 21172	7.2500		S
##	322	0	349219	7.8958		S
##	325	2	CA. 2343	69.5500		S
##	327	0	345364	6.2375		S
##	332	0	113043	28.5000	C124	S
##	333	1	PC 17582	153.4625	C91	S
##	334	0	345764	18.0000		S
##	336	0	349225	7.8958		S
##	337	0	113776	66.6000	C2	S
##	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/O2. 3101279	15.8500		S
## 405	0	315096	8.6625		S
## 406	0	28664	21.0000		S
## 407	0	347064	7.7500		S
## 409	0	312992	7.7750		S
## 410	1	4133	25.4667		S
## 411	0	349222	7.8958		S
## 412	0	394140	6.8583		Q
## 414	0	239853	0.0000		S
## 416	0	343095	8.0500		S
## 419	0	28228	13.0000		S
## 420	2	345773	24.1500		S
## 421	0	349254	7.8958		C
## 422	0	A/5. 13032	7.7333		Q
## 423	0	315082	7.8750		S
## 424	1	347080	14.4000		S
## 425	1	370129	20.2125		S
## 426	0	A/4. 34244	7.2500		S
## 429	0	364851	7.7500		Q
## 434	0	STON/O 2. 3101274	7.1250		S
## 435	0	13507	55.9000	E44	S
## 437	2	W./C. 6608	34.3750		S
## 439	4	19950	263.0000	C23 C25 C27	S
## 440	0	C.A. 18723	10.5000		S
## 442	0	345769	9.5000		S
## 443	0	347076	7.7750		S
## 451	2	C.A. 34651	27.7500		S
## 452	0	65303	19.9667		S
## 453	0	113051	27.7500	C111	C
## 455	0	A/5 2817	8.0500		S
## 457	0	13509	26.5500	E38	S
## 460	0	371060	7.7500		Q
## 462	0	364506	8.0500		S
## 463	0	111320	38.5000	E63	S
## 464	0	234360	13.0000		S
## 465	0	A/S 2816	8.0500		S
## 466	0	SOTON/O.Q. 3101306	7.0500		S
## 467	0	239853	0.0000		S
## 468	0	113792	26.5500		S
## 469	0	36209	7.7250		Q
## 471	0	323592	7.2500		S
## 472	0	315089	8.6625		S
## 475	0	7553	9.8375		S
## 476	0	110465	52.0000	A14	S
## 477	0	31027	21.0000		S
## 478	0	3460	7.0458		S
## 479	0	350060	7.5208		S
## 481	2	CA 2144	46.9000		S
## 482	0	239854	0.0000		S
## 483	0	A/5 3594	8.0500		S
## 486	1	4133	25.4667		S
## 488	0	11771	29.7000	B37	C

## 489	0	A.5.	18509	8.0500		S
## 491	0		65304	19.9667		S
## 492	0	SOTON/OQ	3101317	7.2500		S
## 493	0		113787	30.5000	C30	S
## 494	0	PC	17609	49.5042		C
## 495	0	A/4	45380	8.0500		S
## 496	0		2627	14.4583		C
## 498	0	C.A.	6212	15.1000		S
## 499	2		113781	151.5500	C22 C26	S
## 500	0		350035	7.7958		S
## 501	0		315086	8.6625		S
## 502	0		364846	7.7500		Q
## 503	0		330909	7.6292		Q
## 504	0		4135	9.5875		S
## 506	0	PC	17758	108.9000	C65	C
## 509	0	C	4001	22.5250		S
## 512	0	SOTON/OQ	3101316	8.0500		S
## 515	0		349209	7.4958		S
## 516	0		36967	34.0208	D46	S
## 518	0		371110	24.1500		Q
## 520	0		349242	7.8958		S
## 522	0		349252	7.8958		S
## 523	0		2624	7.2250		C
## 525	0		2700	7.2292		C
## 526	0		367232	7.7500		Q
## 528	0	PC	17483	221.7792	C95	S
## 529	0		3101296	7.9250		S
## 530	1		29104	11.5000		S
## 532	0		2641	7.2292		C
## 533	1		2690	7.2292		C
## 535	0		315084	8.6625		S
## 537	0		113050	26.5500	B38	S
## 539	0		364498	14.5000		S
## 542	2		347082	31.2750		S
## 543	2		347082	31.2750		S
## 545	0	PC	17761	106.4250	C86	C
## 546	0		693	26.0000		S
## 549	1		363291	20.5250		S
## 552	0		244358	26.0000		S
## 553	0		330979	7.8292		Q
## 556	0		113807	26.5500		S
## 558	0	PC	17757	227.5250		C
## 561	0		372622	7.7500		Q
## 562	0		349251	7.8958		S
## 563	0		218629	13.5000		S
## 564	0	SOTON/OQ	392082	8.0500		S
## 565	0	SOTON/O.Q.	392087	8.0500		S
## 566	0	A/4	48871	24.1500		S
## 567	0		349205	7.8958		S
## 568	4		349909	21.0750		S
## 569	0		2686	7.2292		C
## 575	0	A/4.	20589	8.0500		S
## 576	0		358585	14.5000		S
## 579	0		2689	14.4583		C

## 583	0	28403	26.0000		S
## 584	0	13049	40.1250	A10	C
## 585	0	3411	8.7125		C
## 587	0	237565	15.0000		S
## 589	0	14973	8.0500		S
## 590	0	A./5. 3235	8.0500		S
## 591	0	STON/O 2. 3101273	7.1250		S
## 593	0	A/5 3902	7.2500		S
## 594	2	364848	7.7500		Q
## 595	0	SC/AH 29037	26.0000		S
## 596	1	345773	24.1500		S
## 598	0	LINE	0.0000		S
## 599	0	2664	7.2250		C
## 602	0	349214	7.8958		S
## 603	0	113796	42.4000		S
## 604	0	364511	8.0500		S
## 606	0	349910	15.5500		S
## 607	0	349246	7.8958		S
## 611	5	347082	31.2750		S
## 612	0	SOTON/O.Q. 3101305	7.0500		S
## 614	0	370377	7.7500		Q
## 615	0	364512	8.0500		S
## 617	1	347080	14.4000		S
## 618	0	A/5. 3336	16.1000		S
## 620	0	31028	10.5000		S
## 621	0	2659	14.4542		C
## 624	0	350029	7.8542		S
## 625	0	54636	16.1000		S
## 626	0	36963	32.3208	D50	S
## 627	0	219533	12.3500		Q
## 629	0	349224	7.8958		S
## 630	0	334912	7.7333		Q
## 632	0	347743	7.0542		S
## 634	0	112052	0.0000		S
## 635	2	347088	27.9000		S
## 637	0	STON/O 2. 3101292	7.9250		S
## 638	1	C.A. 31921	26.2500		S
## 639	5	3101295	39.6875		S
## 640	0	376564	16.1000		S
## 641	0	350050	7.8542		S
## 643	2	347088	27.9000		S
## 647	0	349231	7.8958		S
## 649	0	S.O./P.P. 751	7.5500		S
## 651	0	349221	7.8958		S
## 653	0	8475	8.4333		S
## 655	0	365226	6.7500		Q
## 656	0	S.O.C. 14879	73.5000		S
## 657	0	349223	7.8958		S
## 658	1	364849	15.5000		Q
## 659	0	29751	13.0000		S
## 660	2	35273	113.2750	D48	C
## 662	0	2623	7.2250		C
## 663	0	5727	25.5875	E58	S
## 664	0	349210	7.4958		S

## 666	0	S.O.C. 14879	73.5000		S
## 667	0	234686	13.0000		S
## 668	0	312993	7.7750		S
## 669	0	A/5 3536	8.0500		S
## 672	0	F.C. 12750	52.0000	B71	S
## 673	0	C.A. 24580	10.5000		S
## 675	0	239856	0.0000		S
## 676	0	349912	7.7750		S
## 677	0	342826	8.0500		S
## 679	6	CA 2144	46.9000		S
## 681	0	330935	8.1375		Q
## 683	0	6563	9.2250		S
## 684	2	CA 2144	46.9000		S
## 685	1	29750	39.0000		S
## 686	2	SC/Paris 2123	41.5792		C
## 687	1	3101295	39.6875		S
## 688	0	349228	10.1708		S
## 689	0	350036	7.7958		S
## 694	0	2672	7.2250		C
## 695	0	113800	26.5500		S
## 696	0	248731	13.5000		S
## 697	0	363592	8.0500		S
## 699	1	17421	110.8833	C68	C
## 700	0	348121	7.6500	F G63	S
## 703	1	2691	14.4542		C
## 704	0	36864	7.7417		Q
## 705	0	350025	7.8542		S
## 706	0	250655	26.0000		S
## 712	0	113028	26.5500	C124	S
## 714	0	7545	9.4833		S
## 715	0	250647	13.0000		S
## 716	0	348124	7.6500	F G73	S
## 719	0	36568	15.5000		Q
## 720	0	347062	7.7750		S
## 722	0	350048	7.0542		S
## 723	0	12233	13.0000		S
## 724	0	250643	13.0000		S
## 726	0	315094	8.6625		S
## 729	0	236853	26.0000		S
## 730	0	STON/02. 3101271	7.9250		S
## 732	0	2699	18.7875		C
## 733	0	239855	0.0000		S
## 734	0	28425	13.0000		S
## 735	0	233639	13.0000		S
## 736	0	54636	16.1000		S
## 737	3	W./C. 6608	34.3750		S
## 739	0	349201	7.8958		S
## 740	0	349218	7.8958		S
## 742	0	19877	78.8500	C46	S
## 744	0	376566	16.1000		S
## 746	1	WE/P 5735	71.0000	B22	S
## 747	1	C.A. 2673	20.2500		S
## 749	0	113773	53.1000	D30	S
## 750	0	335097	7.7500		Q

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

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

```
#8
```

```
install.packages("readr")
```

```
## Installing package into '/cloud/lib/x86_64-pc-linux-gnu-library/4.3'
```

```
## (as 'lib' is unspecified)
```

```
library(readr)
```

```
breastcancer_wisconsin <- read_csv("breastcancer_wisconsin.csv")
```

```
## Rows: 699 Columns: 11
```

```
## -- Column specification -----
```

```
## Delimiter: ","
```

```
## chr (1): bare_nucleoli
```

```
## dbl (10): id, clump_thickness, size_uniformity, shape_uniformity, marginal_a...
```

```
##
```

```
## i Use `spec()` to retrieve the full column specification for this data.
```

```
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

```
print(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             1
## 2 1002945             5             4             4             5
## 3 1015425             3             1             1             1
## 4 1016277             6             8             8             1
## 5 1017023             4             1             1             3
## 6 1017122             8            10            10             8
## 7 1018099             1             1             1             1
## 8 1018561             2             1             2             1
## 9 1033078             2             1             1             1
## 10 1033078            4             2             1             1
## # i 689 more rows
## # i 6 more variables: epithelial_size <dbl>, bare_nucleoli <chr>,
## #   bland_chromatin <dbl>, normal_nucleoli <dbl>, mitoses <dbl>, class <dbl>
```

#a. The dataset is all about the recorded data of people that have breastcancer and its characteristics

```
library(xlsx)
abalone<- read.csv("abalone.csv")
xlsx::write.xlsx(abalone, "abalone.xls", col.names=TRUE, row.names=TRUE, sheetName="sample")
library("AppliedPredictiveModeling")
head(abalone)
```

```
##   Sex Length Diameter Height Whole.weight Shucked.weight Viscera.weight
## 1  M  0.455   0.365  0.095    0.5140      0.2245      0.1010
## 2  M  0.350   0.265  0.090    0.2255      0.0995      0.0485
## 3  F  0.530   0.420  0.135    0.6770      0.2565      0.1415
## 4  M  0.440   0.365  0.125    0.5160      0.2155      0.1140
## 5  I  0.330   0.255  0.080    0.2050      0.0895      0.0395
## 6  I  0.425   0.300  0.095    0.3515      0.1410      0.0775
##   Shell.weight Rings
## 1      0.150     15
## 2      0.070      7
## 3      0.210      9
## 4      0.155     10
## 5      0.055      7
## 6      0.120      8
```

```
summary(abalone)
```

```
##      Sex      Length      Diameter      Height
## Length:4177   Min.   :0.075   Min.   :0.0550   Min.   :0.0000
## Class :character 1st Qu.:0.450   1st Qu.:0.3500   1st Qu.:0.1150
## Mode  :character Median :0.545   Median :0.4250   Median :0.1400
##              Mean  :0.524   Mean   :0.4079   Mean   :0.1395
##              3rd Qu.:0.615   3rd Qu.:0.4800   3rd Qu.:0.1650
##              Max.   :0.815   Max.    :0.6500   Max.    :1.1300
## Whole.weight Shucked.weight Viscera.weight Shell.weight
## Min.   :0.0020   Min.   :0.0010   Min.   :0.0005   Min.   :0.0015
## 1st Qu.:0.4415   1st Qu.:0.1860   1st Qu.:0.0935   1st Qu.:0.1300
## Median :0.7995   Median :0.3360   Median :0.1710   Median :0.2340
## Mean   :0.8287   Mean    :0.3594   Mean    :0.1806   Mean    :0.2388
```

```

## 3rd Qu.:1.1530 3rd Qu.:0.5020 3rd Qu.:0.2530 3rd Qu.:0.3290
## Max. :2.8255 Max. :1.4880 Max. :0.7600 Max. :1.0050
## Rings
## Min. : 1.000
## 1st Qu.: 8.000
## Median : 9.000
## Mean : 9.934
## 3rd Qu.:11.000
## Max. :29.000

```