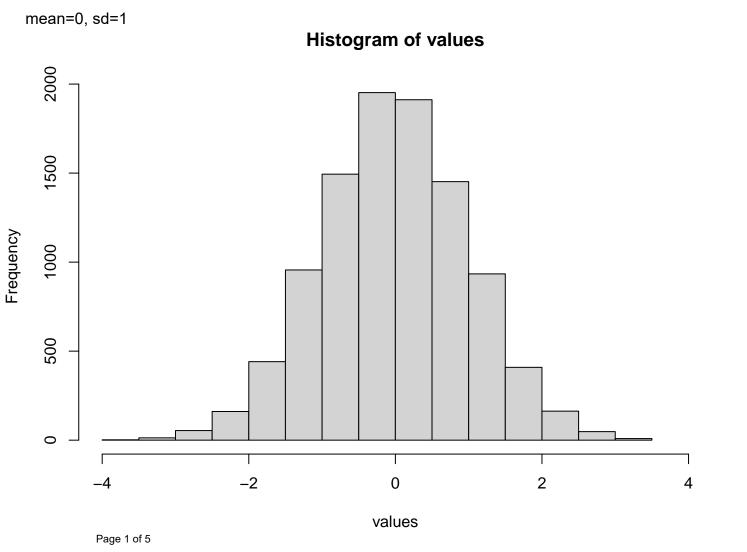
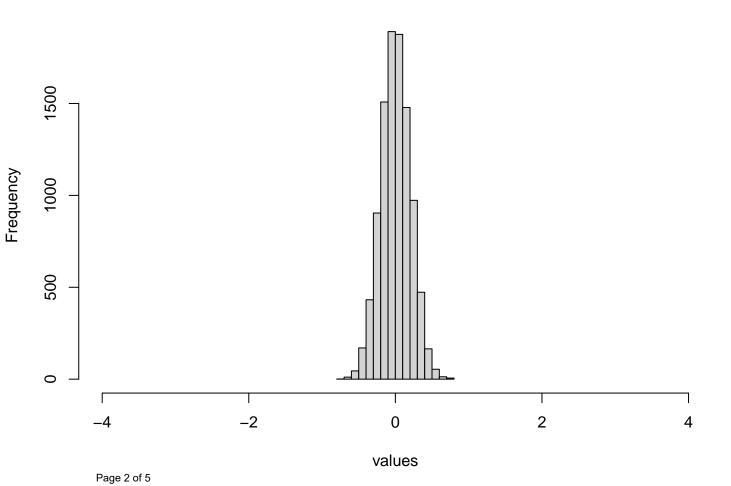
#### Homework #1 – Carmen Schuler

```
> #1.(a) read text file which creates a data frame called Su
> Su <- read.delim("G:/My Drive/Personal/Grad Program/CSC 587 - Adv Data Mining/Scripts/datamining-main/Rscripts/data/Su_raw_matrix.txt")
> #1.(b)
> mean(Su$Liver_2.CEL) #mean of Liver_2.CEL column
[1] 241.8246
> sd(Su$Liver_2.CEL)
                       #standard deviation of Liver_2.CEL column
[1] 1133.352
> #1.(c)
> colMeans(Su) #mean or average of each column
      Brain_1.CEL
                        Brain_2.CEL Fetal_brain_1.CEL Fetal_brain_2.CEL Fetal_liver_1.CEL Fetal_liver_2.CEL
                                                                                                                  Liver_1.CEL
         204.9763
                           315.0924
                                             198.3439
                                                               267.6551
                                                                                 209.8722
                                                                                                   399.1482
                                                                                                                     160.8558
      Liver_2.CEL
         241.825
> colSums(Su) #sum of each column
      Brain_1.CEL
                        Brain_2.CEL Fetal_brain_1.CEL Fetal_brain_2.CEL Fetal_liver_1.CEL Fetal_liver_2.CEL
                                                                                                                  Liver_1.CEL
          2588031
                            3978357
                                              2504290
                                                                3379413
                                                                                  2649846
                                                                                                                      2030966
                                                                                                    5039645
      Liver_2.CEL
        3053278
```

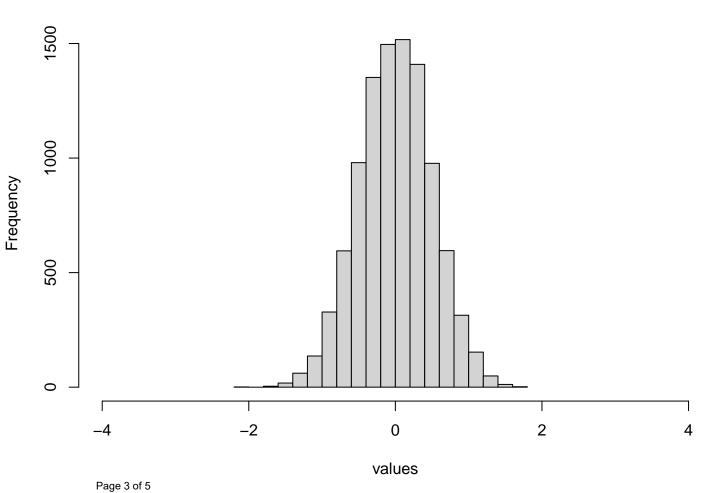
>



# Histogram of values

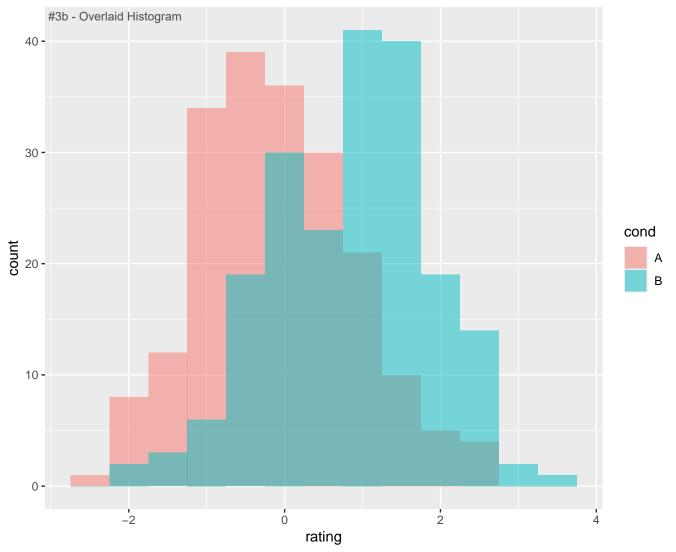


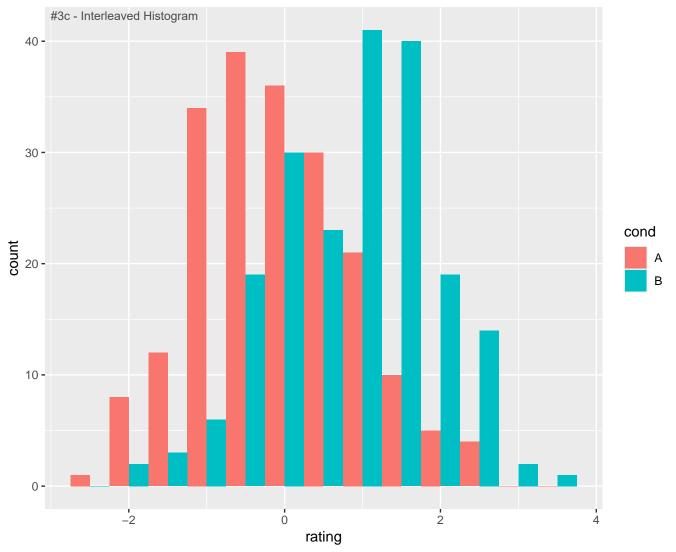
# **Histogram of values**

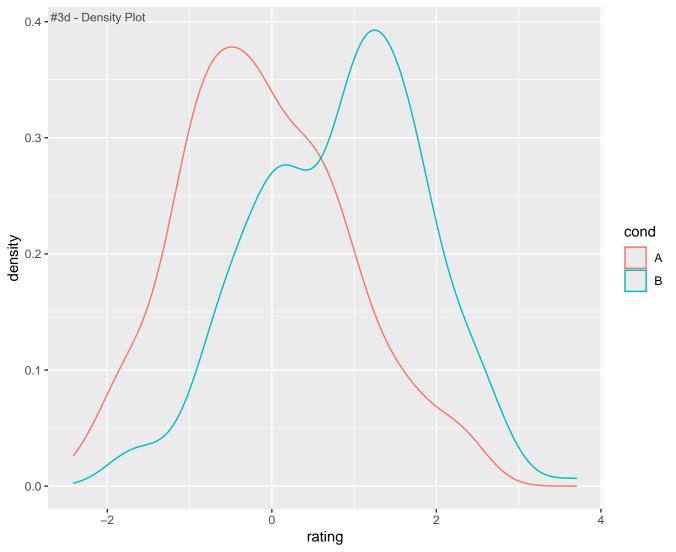


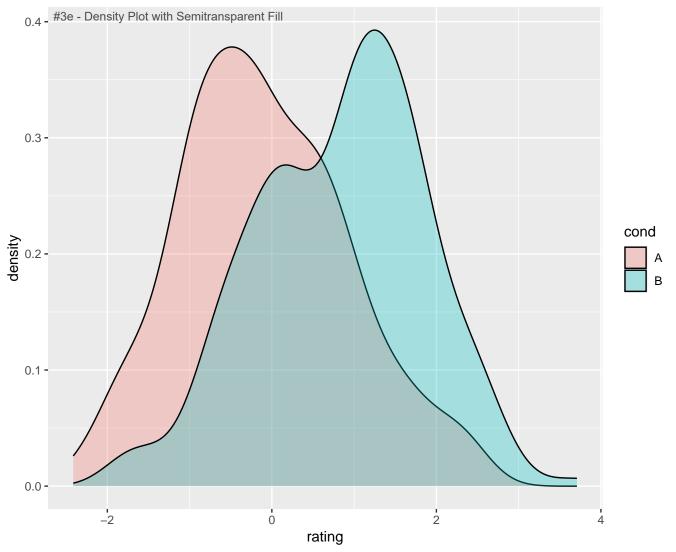
The standard deviation (or sigma) indicates how close the data is to the mean of the data. In these cases, we chose 10,000 random numbers in a normal distribution. In the first case (page #1), with the sigma at 1, the points are more spread out and further from the mean since the standard deviation is higher. In the second case (page #2) the sigma is 0.2, and the lowest of the three examples so there are more data points closer to the mean. For the third case (page #3) the sigma is 0.5 which shows that the data is further from the mean than the 0.2 sigma but not as far apart as the 1 sigma. Therefore, the higher the standard deviation, the more the data will be spread apart from the mean, and the lower the standard deviation, the closer the data points will be to the mean.

```
"``{r}
#2.(a) and (b)
values = rnorm(10000, mean = 0, sd = 1) #changed sd from 1 then to 0.2 and then to 0.5 and ran again each time
hist(values, xlim = c(-4,4))
...
'``{r}
#2.(a) and (b)
values = rnorm(10000, mean = 0, sd = 0.2)
hist(values, xlim = c(-4,4))
...
'``{r}
#2.(a) and (b)
values = rnorm(10000, mean = 0, sd = 0.5)
hist(values, xlim = c(-4,4))
```

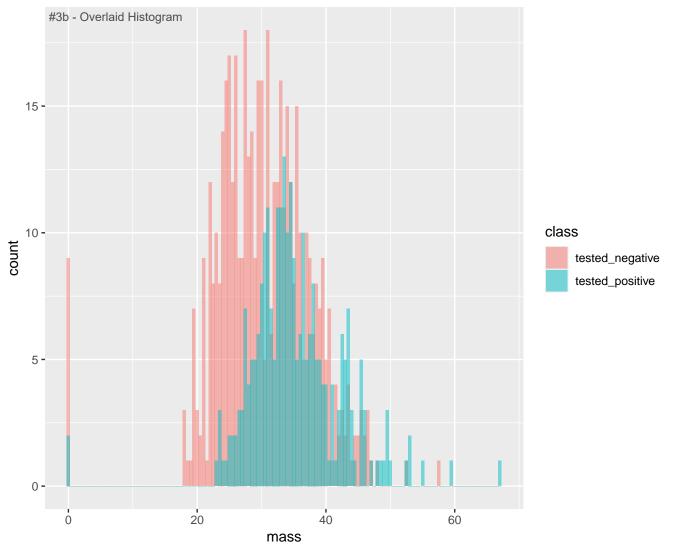


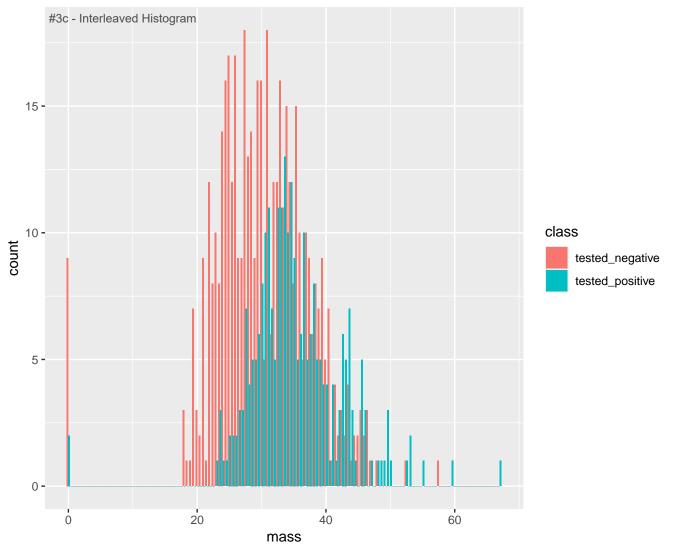


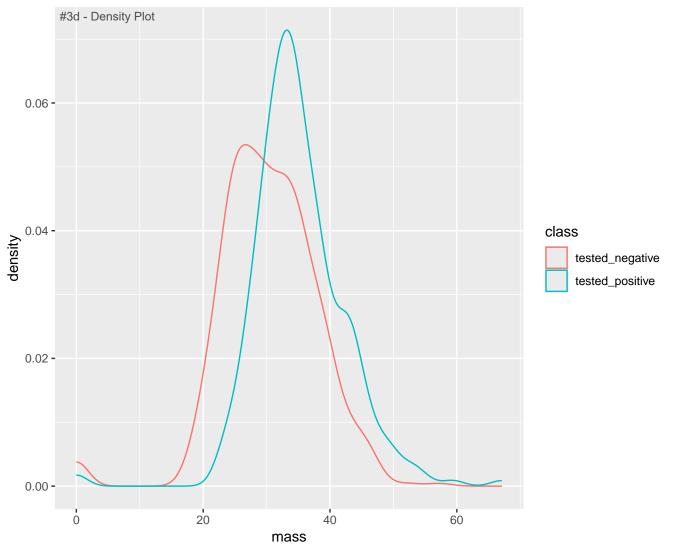


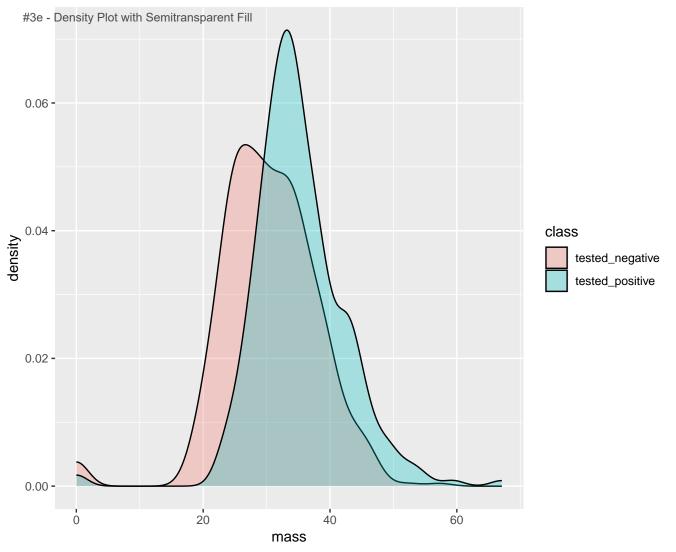


```
library(ggplot2)
#3.(a) #dat data file
dat <- data.frame(cond = factor(rep(c("A", "B"), each = 200)), rating = c(rnorm(200), rnorm(200, mean = .8)))
#3.(b) Overlaid histogram - shows both conditions together and where the counts overlap
ggplot(dat, aes(x = rating, fill = cond)) + geom_histogram(binwidth = .5, alpha = .5, position = "identity")
#3.(c) Interleaved histogram - shows both conditions but now has them separate to see how the counts compare
ggplot(dat, aes(x = rating, fill = cond)) + geom_histogram(binwidth = .5, position = "dodge")
#3.(d) Density plots - similar to the histogram but it in a smooth curve rather than bars
ggplot(dat, aes(x = rating, colour = cond)) + geom_density()
#3.(e) Density plot with semitransparent fill - has the smooth curve as the density plot but now each condition is filled in by color so you can better see
where they overlap
ggplot(dat, aes(x = rating, fill = cond)) + geom_density(alpha = .3)
```









```
library(ggplot2)
#3.(a) #diabetes data file
diabetes <- read.csv("G:/My Drive/Personal/Grad Program/CSC 587 - Adv Data Mining/Scripts/datamining-main/Rscripts/data/diabetes_train.csv")
#3.(b) Overlaid histogram - shows both classes together and where the counts overlap
ggplot(diabetes, aes(x = mass, fill = class)) + geom_histogram(binwidth = .5, alpha = .5, position = "identity")
#3.(c) Interleaved histogram - shows both classes but now has them separate to see how the counts compare
ggplot(diabetes, aes(x = mass, fill = class)) + geom_histogram(binwidth = .5, position = "dodge")
#3.(d) Density plots - similar to the histogram but it in a smooth curve rather than bars
ggplot(diabetes, aes(x = mass, colour = class)) + geom_density()
#3.(e) Density plot with semitransparent fill - has the smooth curve as the density plot but now each class is filled in by color so you can better see
where they overlap
ggplot(diabetes, aes(x = mass, fill = class)) + geom_density(alpha = .3)
```

> library(tidyr)

> #4 titanic data file

> passengers <- read.csv("G:/My Drive/Personal/Grad Program/CSC 587 - Adv Data Mining/Scripts/datamining-main/Rscripts/data/titanic.csv")

> #4.(a)

24 46

47

0 3

> passengers %>% drop\_na() %>% summary() #This operation removes any rows that have missing values and then creates a summary for each column of the newly filtered data

	a sum	-			-	Tiltered da											
		X	Passen	-		vived	Pcla			ame		Se			Age	_	
	Min.	: 0.0	Min.		Min.		Length -		Length			Length			: 0.42		
		u.:221.2	1st Qu.						Class				:character		Qu.:20.12		
		n :444.0	Median				Mode	:character	Mode	:char	acter	Mode	:character		an :28.00		
	Mean	:447.6		:448.6	Mean	:0.4062								Mean			
	3rd Q	u.:676.8	3rd Qu.		-	.:1.0000									Qu.:38.00		
	Max.	:890.0			Max.	:1.0000								Max.	:80.00	)	
	S	ibSp	Pa	rch		icket		Fare	(	Cabin		Em	barked				
	Min.	:0.0000	Min.	:0.0000	Leng	th:714	Mil	n. : 0.00	Leng	gth:71	4	Leng	th:714				
	1st Q	u.:0.0000	1st Qu	.:0.0000	Class	:characte	r 1s	t Qu.: 8.05	clas	ss :ch	aracter	Clas	s :character				
	Media	n :0.0000	Median	:0.0000	Mode	:characte	r Med	dian : 15.74	Mode	e :ch	aracter	Mode	:character				
	Mean	:0.5126	Mean	:0.4314			Меа	an : 34.69									
	3rd Q	u.:1.0000	3rd Qu	.:1.0000			3rd	d Qu.: 33.38									
	Max.	:5.0000	Max.	:6.0000			Max	x. :512.33									
>	<b>#4.</b> (	b)															
>	> pass	engers %>%	filter(	Sex == "n	nale") #	#This opera <sup>.</sup>	tion f	ilters the pa	ssenge	ers to	show or	nly the	male passen	gers			
	X	Passenger	Id Survi	ved Pclas	SS			Name	Sex	Age	SibSp	Parch	Ti	cket	Fare	C	abin
-	L 0		1	0	3	Brauı	nd, Mr	. Owen Harris	male	22.00	1	0	A/5 2	1171	7.2500		
2	2 4		5	0	3	Allen	, Mr. \	william Henry	male	35.00	0	0	37	3450	8.0500		
3	3 5		6	0	3		Mora	an, Mr. James	male	NA	0	0	330	0877	8.4583		
4	1 6		7	0	1	McCa	rthy, M	Mr. Timothy J	male	54.00	0	0	1	7463	51.8625		E46
	5 7		8	0	3 1	Palsson, Mas	ster. (	Gosta Leonard	male	2.00	3	1	349	9909	21.0750		
(	5 12		13	0	3 9	Saundercock	, Mr. \	william Henry	male	20.00	0	0	A/5.	2151	8.0500		
-	7 13		14	0	3	Andersso	n, Mr.	Anders Johan	male	39.00	1	5	34	7082	31.2750		
8	3 16		17	0	3	R.	ice, Ma	aster. Eugene	male	2.00	4	1	383	2652	29.1250		
9	9 17		18	1	2	Williams,	Mr. Cl	harles Eugene	male	NA	0	0	24	4373	13.0000		
-	LO 20		21	0	2	F	ynney,	Mr. Joseph J	male	35.00	0	0	239	9865	26.0000		
-	L1 21		22	1	2	Ве	esley,	Mr. Lawrence	male	34.00	0	0	248	3698	13.0000		D56
-	L2 23		24	1	1	Sloper, M	r. Wil	liam Thompson	male	28.00	0	0	111	3788	35.5000		А6
-	L3 26		27	0	3	Emir	, Mr. I	Farred Chehab	male	NA	0	0		2631	7.2250		
-	L4 27		28	0	1 1	Fortune, Mr	. Char	les Alexander	male	19.00	3	2	19	9950	263.0000	C23 C25	C27
-	L5 29		30	0	3		Todoro	ff, Mr. Lalio	male	NA	0	0	349	9216	7.8958		
-	L6 30		31	0	1			on. Manuel E		40.00	0	0	PC 1	7601	27.7208		
-	L7 33		34	0	2			Mr. Edward H				0	C.A. 2	4579	10.5000		
-	L8 34		35	0	1			Edgar Joseph				0	PC 1	7604	82.1708		
	L9 35		36	0		-		exander Oskar				0			52.0000		
	20 36		37	1	3	,		ee, Mr. Hanna		NA		0		2677	7.2292		
	21 37		38	0	?	Cann.		rnest Charles				0	A./5.		8.0500		
	22 42		43	0	3	-		, Mr. Theodor		NA		0	•	9253	7.8958		
	23 45		46	0	3			William John		NA		0	S.C./A.4. 2		8.0500		
-				9	-	Koger.	٠, ١٠١١ ٠			11/1	3	J	J.C., A 2.		0.0550		

Lennon, Mr. Denis male NA 1

0

370371 15.5000

25	48	49	0	3	Samaan, Mr. Youssef male	NA	2	0	2662	21.6792	
26	50	51	0	3	•	7.00	4	1		39.6875	
27	51	52	0	3	Nosworthy, Mr. Richard Cater male 2		0	0	A/4. 39886	7.8000	
28	54	55	0	1	Ostby, Mr. Engelhart Cornelius male 6	5.00	0	1	113509	61.9792	в30
29	55	56	1	1	Woolner, Mr. Hugh male	NA	0	0	19947	35.5000	C52
30	57	58	0	3	Novel, Mr. Mansouer male 2	8.50	0	0	2697	7.2292	
31	59	60	0		Goodwin, Master. William Frederick male 1		5	2	CA 2144	46.9000	
32	60	61	0	3	Sirayanian, Mr. Orsen male 2		0	0	2669	7.2292	
33	62	63	0	1	Harris, Mr. Henry Birkhardt male 4		1	0	36973	83.4750	C83
34	63	64	0	3	Skoog, Master. Harald male		3	2		27.9000	
35	64	65	0	1	Stewart, Mr. Albert A male	NA	0	0	PC 17605	27.7208	
36	65	66	1	3	Moubarek, Master. Gerios male	NA	1	1	2661	15.2458	
37	67	68	0	3	Crease, Mr. Ernest James male 1		0	0	S.P. 3464	8.1583	
38	69	70	0	3	Kink, Mr. Vincenz male 2		2	0	315151	8.6625	
39	70	71	0	2	Jenkin, Mr. Stephen Curnow male 3		0	0	C.A. 33111		
40	72	73	0	2	Hood, Mr. Ambrose Jr male 2		0	0		73.5000	
41	73	74	0	3	Chronopoulos, Mr. Apostolos male 2		1	0	2680	14.4542	
42	74	75	1	3	Bing, Mr. Lee male 3		0	0		56.4958	
43	75	76	0	3	Moen, Mr. Sigurd Hansen male 2		0	0	348123	7.6500	F G73
44	76	77	0	3	Staneff, Mr. Ivan male	NA	0	0	349208	7.8958	
45	77	78	0	3	Moutal, Mr. Rahamin Haim male	NA	0	0	374746	8.0500	
46	78	79	1	2	Caldwell, Master. Alden Gates male		0	2	248738	29.0000	
47	80	81	0	?	Waelens, Mr. Achille male 2		0	0	345767	9.0000	
48	81	82	1	3	Sheerlinck, Mr. Jan Baptist male 2		0	0	345779	9.5000	
49	83	84	0	1	Carrau, Mr. Francisco M male 2		0	0	113059	47.1000	
50	86	87	0	3	Ford, Mr. William Neal male 1		1	3	w./c. 6608	34.3750	
51	87	88	0	3	Slocovski, Mr. Selman Francis male	NA	0	0	SOTON/OQ 392086	8.0500	
52	89	90	0	3	Celotti, Mr. Francesco male 2		0	0	343275	8.0500	
53	90	91	0	3	Christmann, Mr. Emil male 2		0	0	343276	8.0500	
54	91	92	0	3	Andreasson, Mr. Paul Edvin male 2		0	0	347466	7.8542	
55	92	93	0	1	Chaffee, Mr. Herbert Fuller male 4		1	0	W.E.P. 5734	61.1750	E31
56	93	94	0	3	Dean, Mr. Bertram Frank male 2		1	2	C.A. 2315	20.5750	
57	94	95	0	3	Coxon, Mr. Daniel male 5		0	0	364500	7.2500	
58	95	96	0	3	Shorney, Mr. Charles Joseph male	NA	0	0	374910	8.0500	
59	96	97	0	1	Goldschmidt, Mr. George B male 7	1.00	0	0	PC 17754	34.6542	A5
60	97	98	1	1	Greenfield, Mr. William Bertram male 2		0	1	PC 17759	63.3583	D10 D12
61	99	100	0	2	Kantor, Mr. Sinai male 3	4.00	1	0	244367	26.0000	
62	101	102	0	3	Petroff, Mr. Pastcho ("Pentcho") male	NA	0	0	349215	7.8958	
63	102	103	0	1	White, Mr. Richard Frasar male 2	1.00	0	1	35281	77.2875	D26
64	103	104	0	3	Johansson, Mr. Gustaf Joel male 3	3.00	0	0	7540	8.6542	
65	104	105	0	3	Gustafsson, Mr. Anders Vilhelm male 3		2	0	3101276	7.9250	
66	105	106	0	3	Mionoff, Mr. Stoytcho male 2	8.00	0	0	349207	7.8958	
67	107	108	1	3	Moss, Mr. Albert Johan male	NA	0	0	312991	7.7750	
	108	109	0	3	Rekic, Mr. Tido male 3		0	0	349249	7.8958	
	110	111	0	1	Porter, Mr. Walter Chamberlain male 4		0	0	110465	52.0000	C110
70		113	0	3	Barton, Mr. David John male 2		0	0	324669	8.0500	
71		116	0	3	Pekoniemi, Mr. Edvard male 2		0	0 9	STON/O 2. 3101294	7.9250	
					,						

			_					
72 116	117	0	3	Connors, Mr. Patrick male 70.50	0	0	370369 7.7500	
73 117	118	0	2	Turpin, Mr. William John Robert male 29.00	1	0	11668 21.0000	
74 118	119	0	1	Baxter, Mr. Quigg Edmond male 24.00	0	1	PC 17558 247.5208	в58 в60
75 120	121	0	2	Hickman, Mr. Stanley George male 21.00	2	0	S.O.C. 14879 73.5000	
76 121	122	0	3	Moore, Mr. Leonard Charles male NA	0	0	A4. 54510 8.0500	
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73
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75
         S
 [ reached 'max' / getOption("max.print") -- omitted 501 rows ]
> #4.(c)
> passengers %>% arrange(desc(Fare)) #This operation arranges the passengers by the Fare amount in descending order (largest to smallest)
     X PassengerId Survived Pclass
                                                                                                                     Sex Age
1 258
              259
                         1
                                1
                                                                                                  Ward, Miss. Anna female 35.00
2 679
              680
                         1
                                1
                                                                                 Cardeza, Mr. Thomas Drake Martinez
                                                                                                                    male 36.00
3 737
              738
                                                                                            Lesurer, Mr. Gustave J
                                                                                                                    male 35.00
4 27
                                1
               28
                                                                                    Fortune, Mr. Charles Alexander male 19.00
5 88
               89
                         1
                                1
                                                                                        Fortune, Miss. Mabel Helen female 23.00
6 341
              342
                                1
                                                                                    Fortune, Miss. Alice Elizabeth female 24.00
7 438
              439
                                1
                                                                                                 Fortune, Mr. Mark male 64.00
8 311
              312
                                1
                                                                                        Ryerson, Miss. Emily Borie female 18.00
```

9	742	743	1	1 Ryerson, Miss. Susan Parker "Suzette" female 21.	.00
10	118	119	0	1 Baxter, Mr. Quigg Edmond male 24.	.00
	299	300	1	Baxter, Mrs. James (Helene DeLaudeniere Chaput) female 50.	
	380	381	1	? Bidois, Miss. Rosalie female 42.	
	557	558	0	,	NA
				· · · · · · · · · · · · · · · · · · ·	
	700	701	1	Astor, Mrs. John Jacob (Madeleine Talmadge Force) female 18.	
	716	717	1	1 Endres, Miss. Caroline Louise female 38.	
16	527	528	0	<i>5.</i>	NA
17	377	378	0	1 Widener, Mr. Harry Elkins male 27.	.00
18	689	690	1	1 Madill, Miss. Georgette Alexandra female 15.	.00
19	730	731	1	? Allen, Miss. Elisabeth Walton female 29.	.00
20	779	780	1	1 Robert, Mrs. Edward Scott (Elisabeth Walton McMillan) female 43.	.00
21	318	319	1	Wick, Miss. Mary Natalie female 31.	
	856	857	1	1 Wick, Mrs. George Dennick (Mary Hitchcock) female 45.	
			1		
	268	269			
	332	333	0	Graham, Mr. George Edward male 38.	
25	609	610	1	Shutes, Miss. Elizabeth W female 40.	.00
26	297	298	0	1 Allison, Miss. Helen Loraine female 2.	.00
27	305	306	1	1 Allison, Master. Hudson Trevor male 0.	.92
28	498	499	0	1 Allison, Mrs. Hudson J C (Bessie Waldo Daniels) female 25.	.00
29	708	709	1	1 Cleaver, Miss. Alice female 22.	.00
30	31	32	1	·	NA
	195	196	1	1 Lurette, Miss. Elise female 58.	
	269	270	1	Bissette, Miss. Amelia female 35.	
			1		
	325	326		Young, Miss. Marie Grice female 36.	
	373	374	0	1 Ringhini, Mr. Sante male 22.	
35	319	320	1	Spedden, Mrs. Frederic Oakley (Margaretta Corning Stone) female 40.	.00
36	337	338	1	1 Burns, Miss. Elizabeth Margaret female 41.	.00
37	334	335	1	1 Frauenthal, Mrs. Henry William (Clara Heinsheimer) female	NA
38	660	661	1	1 Frauenthal, Dr. Henry William male 50.	.00
39	390	391	1	? Carter, Mr. William Ernest male 36.	.00
40	435	436	1	Carter, Miss. Lucile Polk female 14.	.00
	763	764	1	Carter, Mrs. William Ernest (Lucile Polk) female 36.	
	802	803	1	Carter, Master. William Thornton II male 11.	
				,	
	215	216	1	Newell, Miss. Madeleine female 31.	
	393	394	1	Newell, Miss. Marjorie female 23.	
	659	660	0	Newell, Mr. Arthur Webster male 58.	.00
46	306	307	1	1 Fleming, Miss. Margaret female	NA
47	550	551	1	Thayer, Mr. John Borland Jr male 17.	.00
48	581	582	1	1 Thayer, Mrs. John Borland (Marian Longstreth Morris) female 39.	.00
49	698	699	0	1 Thayer, Mr. John Borland male 49.	.00
50	307	308	1	1 Penasco y Castellana, Mrs. Victor de Satode (Maria Josefa Perez de Soto y Vallejo) female 17.	
	505	506	0	1 Penasco y Castellana, Mr. Victor de Satode male 18.	
	537	538	1	1 LeRoy, Miss. Bertha female 30.	
	544	545	0	Douglas, Mr. Walter Donald male 50.	
				<i>5</i> ,	
	520	521	1	Perreault, Miss. Anne female 30.	
55	820	821	1	1 Hays, Mrs. Charles Melville (Clara Jennings Gregg) female 52.	.00

56	291		292		1		1				Bishop, Mrs. Dickinson H (Helen Walton) f	female	19.00
	484		485		1		1				Bishop, Mr. Dickinson H		25.00
	224		225		1		1				Hoyt, Mr. Frederick Maxfield		38.00
	245		246		0		1				Minahan, Dr. William Edward		44.00
	412		413		1		?				Minahan, Miss. Daisy E f		
	486		487		1		1				Hoyt, Mrs. Frederick Maxfield (Jane Anne Forby) f		
	453		454		1		1				Goldenberg, Mr. Samuel L		49.00
	849		850		1		1				Goldenberg, Mrs. Samuel L (Edwiga Grabowska) f		NA
	257		258		1		1				Cherry, Miss. Gladys f		30.00
65	504		505		1		1				Maioni, Miss. Roberta f		
66	759		760		1		?				Rothes, the Countess. of (Lucy Noel Martha Dyer-Edwards) f	female	33.00
	62		63		0		1				Harris, Mr. Henry Birkhardt		45.00
68	230		231		1		1				Harris, Mrs. Henry Birkhardt (Irene Wallach) f	female	35.00
	310		311		1		1				Hays, Miss. Margaret Bechstein f		
70	835		836		1		1				Compton, Miss. Sara Rebecca f		
71	879		880		1		1				Potter, Mrs. Thomas Jr (Lily Alexenia Wilson) f	female	56.00
72	34		35		0		1				Meyer, Mr. Edgar Joseph	male	28.00
73	375		376		1		1				Meyer, Mrs. Edgar Joseph (Leila Saks) f	female	NA
74	445		446		1		1				Dodge, Master. Washington	male	4.00
75	61		62		1		?				Icard, Miss. Amelie f	female	38.00
76	829		830		1		1				Stone, Mrs. George Nelson (Martha Evelyn) f	female	62.00
	SibSp	Parch	Т	icket		Fare			Cabin	Embarked			
1	0	0	PC	17755	512.	3292				С			
2	0	1	PC	17755	512.	3292		в51	в53 в55	С			
3	0	0	PC	17755	512.	3292			в101	С			
4	3	2		19950	263.	0000		C23	C25 C27	S			
5	3	2		19950	263.	0000		C23	C25 C27	S			
6	3	2		19950	263.	0000		C23	C25 C27	S			
7	1	4		19950	263.	0000		C23	C25 C27	S			
8	2	2	PC	17608	262.	3750	в57	в59	в63 в66	C			
9	2	2	PC	17608	262.	3750	в57	в59	в63 в66	C			
10	0	1	PC	17558	247.	5208			в58 в60	C			
11	0	1	PC	17558	247.	5208			в58 в60	C			
12	0	0	PC	17757	227.	5250				C			
13	0	0	PC	17757	227.	5250				С			
14	1		PC	17757	227.	5250			C62 C64	C			
15	0			17757					C45	C			
16	0			17483					C95	S			
17	0			13503					C82	С			
18	0			24160					В5	S			
19	0			24160					В5	S			
20	0			24160					В3	S			
21	0			36928					с7	S			
22	1			36928						S			
23	0			17582					C125	S			
24	0			17582					C91	S			
25	0	0	PC	17582	153.	4625			C125	S			

26	1	2 113781 151.5500 C22	2 C26	S
27	1	2 113781 151.5500 C22	. c26	S
28	1	2 113781 151.5500 c22	2 C26	S
29	0	0 113781 151.5500		S
30	1	0 PC 17569 146.5208	в78	C
31	0	0 PC 17569 146.5208	в80	С
32	0	0 PC 17760 135.6333	C99	S
33	0	0 PC 17760 135.6333	C32	C
34	0	0 PC 17760 135.6333	C32	C
35	1	1 16966 134.5000	E34	С
36	0	0 16966 134.5000	E40	С
37	1	0 PC 17611 133.6500	E40	S
	2			
38		0 PC 17611 133.6500	-00	S
39	1		Б В98	S
40	1		Б В98	S
41	1		Б В98	S
42	1		Б В98	S
43	1	0 35273 113.2750	D36	C
44	1	0 35273 113.2750	D36	C
45	0	2 35273 113.2750	D48	C
46	0	0 17421 110.8833		С
47	0	2 17421 110.8833	C70	C
48	1	1 17421 110.8833	C68	С
49	1	1 17421 110.8833	C68	С
50	1	0 PC 17758 108.9000	C65	С
51	1	0 PC 17758 108.9000	C65	C
52	0	0 PC 17761 106.4250	203	C
53	1	0 PC 17761 106.4250	C86	C
54	0	0 12749 93.5000	в73	S
55	1	1 12749 93.5000	в69	S
56	1	0 11967 91.0792		C
			B49	
57	1		B49	C
58	1	0 19943 90.0000	C93	S
59	2	0 19928 90.0000	C78	Q
60	1	0 19928 90.0000	C78	Q
61	1	0 19943 90.0000	C93	S
62	1	0 17453 89.1042	C92	C
63	1	0 17453 89.1042	C92	C
64	0	0 110152 86.5000	в77	S
65	0	0 110152 86.5000	в79	S
66	0	0 110152 86.5000	в77	S
67	1	0 36973 83.4750	C83	S
68	1	0 36973 83.4750	C83	S
69	0	0 11767 83.1583	C54	С
70	1	1 PC 17756 83.1583	E49	C
71	0	1 11767 83.1583	C50	c
72	1	0 PC 17604 82.1708	<del>-</del>	C
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73
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74
        2 33638 81.8583
                                  A34
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        0 113572 80.0000
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        0 113572 80.0000
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2 1 2 2 1 1 Cumings, Mrs. John Bradley (Florence Briggs Thayer) Female 38.0 0 0 CT.7599 3 2 3 1 3 3 1 3 Futrelle, Mrs. Jacques Heath (Lily May Peel) Female 35.0 0 0 STOM/OZ. 3101282 4 3 4 5 0 0 3 Allen, Mr. William Henry male 35.0 0 0 373450 5 6 5 6 0 3 Moran, Mr. James male 40.0 0 0 330867 7 6 7 0 1 McCarthy, Mr. Tinothy J male 54.0 0 0 17463 8 7 8 0 3 Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg) Female 27.0 0 2 347742 9 8 9 9 1 3 Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg) Female 27.0 0 2 347742 11 10 11 1 3 Sandstrom, Miss. Marguerite Rut Female 4.0 1 0 237736 11 10 11 1 3 Sandstrom, Miss. Marguerite Rut Female 4.0 1 1 pp 9549 12 11 12 1 1 Soundercock, Mr. William Henry male 20.0 0 0 113783 13 12 13 0 3 Saundercock, Mr. William Henry male 20.0 0 0 A/5. 2151 14 15 0 3 Vestrom, Miss. Marguerite Rut Female 4.0 1 1 pp 9549 15 14 15 0 3 Vestrom, Mrs. Charles Cohen Female 55.0 0 0 133783 16 15 16 1 2 Hewlett, Mrs. (Nary D Kingome) Female 55.0 0 0 350406 16 15 16 1 2 Hewlett, Mrs. (Nary D Kingome) Female 55.0 0 0 350406 16 15 16 1 2 Hewlett, Mrs. (Nary D Kingome) Female 55.0 0 0 248706 17 16 17 0 3 Waller Planke, Mrs. Julius (Emelia Maria Vandemoortele) Female 85.0 0 0 248706 18 18 19 0 3 Vander Planke, Mrs. Julius (Emelia Maria Vandemoortele) Female 85.0 0 0 248706 18 19 20 1 3 Mosselmani, Mrs. Fatiam Female 80.0 0 248433 19 18 19 0 3 Palson, Miss. Andre Spopen male 20.0 0 0 350906 19 20 1 3 Mosselmani, Mrs. Fatiam Female 80.0 0 248493 19 18 19 0 3 Palson, Mrs. Mrs. Arahrier Female 80.0 0 248698 19 20 21 2 2 Empale 80.0 Nrs. Miss. Torkor Donard Female 80.0 0 248698 19 20 1 3 Mosselmani, Mrs. Fatiam Female 80.0 0 0 330903 10 2 3 1 3 39099 10 2 2 3 3 3 3 1 3 3 9 0 0 3 0 0 3 0 0 0 0 0 0 0 0 0 0 0	> #4.(d)								_		
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11 10					Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)	female	27.0	0			
12 11	10 9	10			Nasser, Mrs. Nicholas (Adele Achem)	female	14.0	1	0	237736	
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16 15	14 13	14	0	3	Andersson, Mr. Anders Johan	male	39.0	1	5	347082	
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18 17 18 1 2	16 15	16	1	2	Hewlett, Mrs. (Mary D Kingcome)	female	55.0	0	0	248706	
19 18 19 0 3 Vander Planke, Mrs. Julius (Emelia Maria Vandemoortele) female 31.0 1 0 345763 20 19 20 1 3 Masselmani, Mrs. Fatima female NA 0 0 2649 21 20 21 0 2 Fynney, Mr. Joseph J male 35.0 0 0 239865 22 21 22 1 2 2 Beesley, Mr. Lawrence male 34.0 0 0 248698 23 22 23 1 3 McGowan, Miss. Anna "Annie" female 15.0 0 0 330923 24 23 24 1 1 Soloper, Mr. William Thompson male 28.0 0 0 113788 25 24 25 0 3 Palson, Miss. Torborg Danira female 8.0 3 1 349909 26 25 26 1 ? Asplund, Mrs. Carl Oscar (Selma Augusta Emilia Johansson) female 38.0 1 5 347077 27 26 27 0 3 Emir, Mr. Farred Chehab male NA 0 0 2631 28 27 28 0 1 Fortune, Mr. Charles Alexander male 19.0 3 2 19950 29 28 29 1 3 O'Dwyer, Miss. Ellen "Nellie" female NA 0 0 330959 30 29 30 0 3 Todoroff, Mr. Lalio male NA 0 0 349216 31 30 31 0 1 Spencer, Mrs. William Augustus (Marie Eugenie) female NA 0 0 70 PC 17601 32 31 32 1 Spencer, Mrs. William Augustus (Marie Eugenie) female NA 0 0 335677 34 33 34 35 0 1 Meadon, Mr. Edward H male 66.0 0 C.A. 24579 35 34 35 0 1 Meyer, Mr. Edyar Joseph male 28.0 1 0 PC 17604 36 37 1 3 Mamee, Mr. Hanna male NA 0 0 2677 38 37 38 0 ? Cann, Mr. Ernest Charles male 21.0 0 0 A./5. 2152	17 16	17	0	3	Rice, Master. Eugene	male	2.0	4	1	382652	
20 19 20 1 3 Masselmani, Mrs. Fatima female NA 0 0 2649 21 20 21 0 2 Fynney, Mr. Joseph J male 35.0 0 0 239865 22 21 22 1 2 1 2 Beesley, Mr. Lawrence male 34.0 0 0 248698 23 22 23 1 3 McGowan, Miss. Anna "Annie" female 15.0 0 0 330923 24 23 24 1 1 Sloper, Mr. William Thompson male 28.0 0 0 113788 25 24 25 0 3 Palsson, Miss. Torborg Danira female 8.0 3 1 349909 26 25 26 1 ? Asplund, Mrs. Carl Oscar (Selma Augusta Emilia Johansson) female 38.0 1 5 347077 27 26 27 0 3 Emir, Mr. Farred Chehab male NA 0 0 2631 28 27 28 0 1 Fortune, Mr. Charles Alexander male 19.0 3 2 19950 29 28 29 1 3 O'Dwyer, Miss. Ellen "Nellie" female NA 0 0 330959 30 29 30 0 3 Todoroff, Mr. Lalio male NA 0 0 349216 31 30 31 0 1 Uruchurtu, Don. Manuel E male 40.0 0 PC 17601 32 31 32 31 3 Spencer, Mrs. William Augustus (Marie Eugenie) female NA 1 0 PC 17569 33 32 33 1 3 Glynn, Miss. Mary Agatha female NA 0 0 335677 34 33 34 0 2 Meadon, Mr. Edward H male 66.0 0 0 C.A. 24579 35 36 37 1 3 Mayer, Mr. Alexander Oskar male 28.0 1 0 PC 17604 36 37 1 3 Mayer, Mr. Alexander Oskar male 28.0 1 0 PC 17604 37 36 37 1 3 Mamee, Mr. Alexander Oskar male 28.0 1 0 PC 17604 38 37 38 0 ? Cann, Mr. Ernest Charles male 21.0 0 0 A./5. 2152	18 17	18	1	2	Williams, Mr. Charles Eugene	male	NA	0	0	244373	
21 20 21 0 2 Fynney, Mr. Joseph J male 35.0 0 0 239865 22 21 22 1 2 2 1 2 0 Beesley, Mr. Lawrence male 34.0 0 0 248698 23 22 23 1 3 McGowan, Miss. Anna "Annie" female 15.0 0 0 330923 24 23 24 1 1 Sloper, Mr. william Thompson male 28.0 0 0 113788 25 24 25 0 3 Palsson, Miss. Torborg Danira female 8.0 3 1 349909 26 25 26 1 ? Asplund, Mrs. Carl Oscar (Selma Augusta Emilia Johansson) female 38.0 1 5 347077 27 26 27 0 3 Emir, Mr. Farred Chehab male NA 0 0 2631 28 27 28 0 1 Fortune, Mr. Charles Alexander male 19.0 3 2 19950 29 28 29 1 3 O'Dwyer, Miss. Ellen "Nellie" female NA 0 0 330959 30 29 30 0 3 Todoroff, Mr. Lalio male NA 0 0 349216 31 30 31 0 1 Uruchurtu, Don. Manuel E male 40.0 0 PC 17601 32 31 32 1 1 Spencer, Mrs. william Augustus (Marie Eugenie) female NA 1 0 PC 17569 33 32 33 1 3 Glynn, Miss. Mary Agatha female NA 0 0 335677 34 33 34 0 2 Meadon, Mr. Edward H male 66.0 0 C.A. 24579 38 37 38 0 ? Cann, Mr. Ernest Charles male 21.0 0 A A./5. 2152	19 18	19	0		Vander Planke, Mrs. Julius (Emelia Maria Vandemoortele)	female	31.0	1	0	345763	
22 21 22 1 2 2 1 2 2	20 19	20	1	3	Masselmani, Mrs. Fatima	female	NA	0	0	2649	
23 22 23 1 3 McGowan, Miss. Anna "Annie" female 15.0 0 0 330923 24 23 24 1 1 Sloper, Mr. William Thompson male 28.0 0 0 113788 25 24 25 0 3 Palsson, Miss. Torborg Danira female 8.0 3 1 349909 26 25 26 1 ? Asplund, Mrs. Carl Oscar (Selma Augusta Emilia Johansson) female 38.0 1 5 347077 27 26 27 0 3 Emir, Mr. Farred Chehab male NA 0 0 2631 28 27 28 0 1 Fortune, Mr. Charles Alexander male 19.0 3 2 19950 29 28 29 1 3 O'Dwyer, Miss. Ellen "Nellie" female NA 0 0 330959 30 29 30 0 3 Todoroff, Mr. Lalio male NA 0 0 349216 31 30 31 0 1 Uruchurtu, Don. Manuel E male 40.0 0 PC 17601 32 31 32 1 Spencer, Mrs. William Augustus (Marie Eugenie) female NA 1 0 PC 17569 33 32 33 1 3 C Meyer, Miss. Mary Agatha female NA 0 0 335677 34 33 34 0 2 Wheadon, Mr. Edward H male 66.0 0 C.A. 24579 35 36 37 1 3 Mamee, Mr. Hanna male NA 0 0 2677 38 37 38 0 ? Cann, Mr. Ernest Charles male 21.0 0 0 A./5. 2152	21 20	21	0	2	Fynney, Mr. Joseph J	male	35.0	0	0	239865	
24 23 24 1 1 Sloper, Mr. william Thompson male 28.0 0 0 113788 25 24 25 0 3 Palsson, Miss. Torborg Danira female 8.0 3 1 349909 26 25 26 1 ? Asplund, Mrs. Carl Oscar (Selma Augusta Emilia Johansson) female 38.0 1 5 347077 27 26 27 0 3 Emir, Mr. Farred Chehab male NA 0 0 2631 28 27 28 0 1 Fortune, Mr. Charles Alexander male 19.0 3 2 19950 29 28 29 1 3 O'Dwyer, Miss. Ellen "Nellie" female NA 0 0 330959 30 29 30 0 3 Todoroff, Mr. Lalio male NA 0 0 349216 31 30 31 0 1 Uruchurtu, Don. Manuel E male 40.0 0 PC 17601 32 31 32 1 1 Spencer, Mrs. William Augustus (Marie Eugenie) female NA 1 0 PC 17569 33 32 33 1 3 3 4 0 2 Mehadon, Mr. Edward H male 66.0 0 C.A. 24579 34 33 34 0 2 Mehadon, Mr. Edward H male 66.0 0 C.A. 24579 35 36 37 1 3 Mamee, Mr. Hanna male NA 0 0 2677 38 37 36 37 1 3 Mamee, Mr. Hanna male NA 0 0 2677 38 37 38 0 ? Cann, Mr. Ernest Charles male 21.0 0 0 A./5. 2152	22 21	22	1	2	Beesley, Mr. Lawrence	male	34.0	0	0	248698	
25 24 25 0 3 Palsson, Miss. Torborg Danira female 8.0 3 1 349909 26 25 26 1 ? Asplund, Mrs. Carl Oscar (Selma Augusta Emilia Johansson) female 38.0 1 5 347077 27 26 27 0 3 Emir, Mr. Farred Chehab male NA 0 0 2631 28 27 28 0 1 Fortune, Mr. Charles Alexander male 19.0 3 2 19950 29 28 29 1 3 O'Dwyer, Miss. Ellen "Nellie" female NA 0 0 330959 30 29 30 0 3 Todoroff, Mr. Lalio male NA 0 0 349216 31 30 31 0 1 Uruchurtu, Don. Manuel E male 40.0 0 PC 17601 32 31 32 1 Spencer, Mrs. William Augustus (Marie Eugenie) female NA 1 0 PC 17569 33 32 33 1 3 Glynn, Miss. Mary Agatha female NA 0 0 335677 34 33 34 0 2 Wheadon, Mr. Edward H male 66.0 0 0 C.A. 24579 35 34 35 0 1 Meyer, Mr. Edgar Joseph male 28.0 1 0 PC 17604 36 35 36 37 1 3 Mamee, Mr. Hanna male NA 0 0 2677 38 37 38 0 ? Cann, Mr. Ernest Charles male 21.0 0 0 A./5. 2152	23 22	23	1	3	McGowan, Miss. Anna "Annie"	female	15.0	0	0	330923	
26 25 26 1 ? Asplund, Mrs. Carl Oscar (Selma Augusta Emilia Johansson) female 38.0 1 5 347077 27 26 27 0 3 Emir, Mr. Farred Chehab male NA 0 0 2631 28 27 28 0 1 Fortune, Mr. Charles Alexander male 19.0 3 2 19950 29 28 29 1 3 O'Dwyer, Miss. Ellen "Nellie" female NA 0 0 330959 30 29 30 0 3 Todoroff, Mr. Lalio male NA 0 0 349216 31 30 31 0 1 Uruchurtu, Don. Manuel E male 40.0 0 PC 17601 32 31 32 1 1 Spencer, Mrs. William Augustus (Marie Eugenie) female NA 1 0 PC 17569 33 32 33 1 3 Glynn, Miss. Mary Agatha female NA 0 353677 34 33 34 0 2 Wheadon, Mr. Edward H male 66.0 0 0 C.A. 24579 35 34 35 0 1 Meyer, Mr. Edgar Joseph male 28.0 1 0 PC 17604 36 35 36 0 1 Holverson, Mr. Alexander Oskar male 42.0 1 0 113789 37 36 37 1 3 Mamee, Mr. Hanna male NA 0 0 2677 38 37 38 0 ? Cann, Mr. Ernest Charles male 21.0 0 0 A./5. 2152	24 23	24	1	1	Sloper, Mr. William Thompson	male	28.0	0	0	113788	
27 26 27 0 3 Emir, Mr. Farred Chehab male NA 0 0 2631 28 27 28 0 1 Fortune, Mr. Charles Alexander male 19.0 3 2 19950 29 28 29 1 3 O'Dwyer, Miss. Ellen "Nellie" female NA 0 0 330959 30 29 30 0 3 Todoroff, Mr. Lalio male NA 0 0 349216 31 30 31 0 1 Uruchurtu, Don. Manuel E male 40.0 0 PC 17601 32 31 32 1 1 Spencer, Mrs. William Augustus (Marie Eugenie) female NA 1 0 PC 17569 33 32 33 1 3 Glynn, Miss. Mary Agatha female NA 0 0 335677 34 33 34 0 2 Wheadon, Mr. Edward H male 66.0 0 C.A. 24579 35 34 35 0 1 Meyer, Mr. Edgar Joseph male 28.0 1 0 PC 17604 36 35 36 0 1 Holverson, Mr. Alexander Oskar male 42.0 1 0 113789 37 36 37 1 3 Mamee, Mr. Hanna male NA 0 0 2677 38 37 38 0 ? Cann, Mr. Ernest Charles male 21.0 0 0 A./5. 2152	25 24	25	0	3	Palsson, Miss. Torborg Danira	female	8.0	3	1	349909	
28 27 28 0 1 Fortune, Mr. Charles Alexander male 19.0 3 2 19950 29 28 29 1 3 0'Dwyer, Miss. Ellen "Nellie" female NA 0 0 330959 30 29 30 0 3 Todoroff, Mr. Lalio male NA 0 0 349216 31 30 31 0 1 Uruchurtu, Don. Manuel E male 40.0 0 PC 17601 32 31 32 1 1 Spencer, Mrs. William Augustus (Marie Eugenie) female NA 1 0 PC 17569 33 32 33 1 3 Glynn, Miss. Mary Agatha female NA 0 0 335677 34 33 34 0 2 Wheadon, Mr. Edward H male 66.0 0 C.A. 24579 35 34 35 0 1 Meyer, Mr. Edgar Joseph male 28.0 1 0 PC 17604 36 35 36 0 1 Meyer, Mr. Alexander Oskar male 42.0 1 0 113789 37 36 37 1 3 Mamee, Mr. Hanna male NA 0 0 2677 38 37 38 0 ? Cann, Mr. Ernest Charles male 21.0 0 0 A./5. 2152	26 25	26	1	?	Asplund, Mrs. Carl Oscar (Selma Augusta Emilia Johansson)	female	38.0	1	5	347077	
29 28 29 1 3 0 O'Dwyer, Miss. Ellen "Nellie" female NA 0 0 330959 30 29 30 0 3 Todoroff, Mr. Lalio male NA 0 0 349216 31 30 31 0 1 Uruchurtu, Don. Manuel E male 40.0 0 PC 17601 32 31 32 1 1 Spencer, Mrs. William Augustus (Marie Eugenie) female NA 1 0 PC 17569 33 32 33 1 3 Glynn, Miss. Mary Agatha female NA 0 0 335677 34 33 34 0 2 Wheadon, Mr. Edward H male 66.0 0 0 C.A. 24579 35 34 35 0 1 Meyer, Mr. Edgar Joseph male 28.0 1 0 PC 17604 36 35 36 0 1 Holverson, Mr. Alexander Oskar male 42.0 1 0 113789 37 36 37 1 3 Mamee, Mr. Hanna male NA 0 0 2677 38 37 38 0 ? Cann, Mr. Ernest Charles male 21.0 0 0 A./5. 2152	27 26	27	0	3	Emir, Mr. Farred Chehab	male	NA	0	0	2631	
30 29 30 0 3 Todoroff, Mr. Lalio male NA 0 0 344916 31 30 31 0 1 Uruchurtu, Don. Manuel E male 40.0 0 PC 17601 32 31 32 1 1 Spencer, Mrs. William Augustus (Marie Eugenie) female NA 1 0 PC 17569 33 32 33 1 3 Glynn, Miss. Mary Agatha female NA 0 0 335677 34 33 34 0 2 Wheadon, Mr. Edward H male 66.0 0 0 C.A. 24579 35 34 35 0 1 Meyer, Mr. Edgar Joseph male 28.0 1 0 PC 17604 36 35 36 0 1 Holverson, Mr. Alexander Oskar male 42.0 1 0 113789 37 36 37 1 3 Mamee, Mr. Hanna male NA 0 0 2677 38 37 38 0 ? Cann, Mr. Ernest Charles male 21.0 0 0 A./5. 2152	28 27	28	0	1	Fortune, Mr. Charles Alexander	male	19.0	3	2	19950	
31 30 31 0 1 Uruchurtu, Don. Manuel E male 40.0 0 0 PC 17601 32 31 32 1 1 Spencer, Mrs. William Augustus (Marie Eugenie) female NA 1 0 PC 17569 33 32 33 1 3 Glynn, Miss. Mary Agatha female NA 0 0 335677 34 33 34 0 2 Wheadon, Mr. Edward H male 66.0 0 0 C.A. 24579 35 34 35 0 1 Meyer, Mr. Edgar Joseph male 28.0 1 0 PC 17604 36 35 36 0 1 Holverson, Mr. Alexander Oskar male 42.0 1 0 113789 37 36 37 1 3 Mamee, Mr. Hanna male NA 0 0 2677 38 37 38 0 ? Cann, Mr. Ernest Charles male 21.0 0 0 A./5. 2152	29 28	29	1	3	O'Dwyer, Miss. Ellen "Nellie"	female	NA	0	0	330959	
32 31 32 1 1 Spencer, Mrs. William Augustus (Marie Eugenie) female NA 1 0 PC 17569 33 32 33 1 3 Glynn, Miss. Mary Agatha female NA 0 0 335677 34 33 34 0 2 Wheadon, Mr. Edward H male 66.0 0 0 C.A. 24579 35 34 35 0 1 Meyer, Mr. Edgar Joseph male 28.0 1 0 PC 17604 36 35 36 0 1 Holverson, Mr. Alexander Oskar male 42.0 1 0 113789 37 36 37 1 3 Mamee, Mr. Hanna male NA 0 0 2677 38 37 38 0 ? Cann, Mr. Ernest Charles male 21.0 0 0 A./5. 2152	30 29	30	0	3	Todoroff, Mr. Lalio	male	NA	0	0	349216	
33 32 33 1 3 Glynn, Miss. Mary Agatha female NA 0 0 335677 34 33 34 0 2 Wheadon, Mr. Edward H male 66.0 0 0 C.A. 24579 35 34 35 0 1 Meyer, Mr. Edgar Joseph male 28.0 1 0 PC 17604 36 35 36 0 1 Holverson, Mr. Alexander Oskar male 42.0 1 0 113789 37 36 37 1 3 Mamee, Mr. Hanna male NA 0 0 2677 38 37 38 0 ? Cann, Mr. Ernest Charles male 21.0 0 0 A./5. 2152	31 30	31	0	1	Uruchurtu, Don. Manuel E	male	40.0	0	0	PC 17601	
34 33 34 0 2 Wheadon, Mr. Edward H male 66.0 0 0 C.A. 24579 35 34 35 0 1 Meyer, Mr. Edgar Joseph male 28.0 1 0 PC 17604 36 35 36 0 1 Holverson, Mr. Alexander Oskar male 42.0 1 0 113789 37 36 37 1 3 Mamee, Mr. Hanna male NA 0 0 2677 38 37 38 0 ? Cann, Mr. Ernest Charles male 21.0 0 0 A./5. 2152	32 31	32	1	1	Spencer, Mrs. William Augustus (Marie Eugenie)	female	NA	1	0	PC 17569	
35 34 35 0 1 Meyer, Mr. Edgar Joseph male 28.0 1 0 PC 17604 36 35 36 0 1 Holverson, Mr. Alexander Oskar male 42.0 1 0 113789 37 36 37 1 3 Mamee, Mr. Hanna male NA 0 0 2677 38 37 38 0 ? Cann, Mr. Ernest Charles male 21.0 0 0 A./5. 2152	33 32	33	1	3	Glynn, Miss. Mary Agatha	female	NA	0	0	335677	
36 35 36 0 1 Holverson, Mr. Alexander Oskar male 42.0 1 0 113789 37 36 37 1 3 Mamee, Mr. Hanna male NA 0 0 2677 38 37 38 0 ? Cann, Mr. Ernest Charles male 21.0 0 0 A./5. 2152	34 33	34	0	2	Wheadon, Mr. Edward H	male	66.0	0	0	C.A. 24579	
37 36       37       1       3       Mamee, Mr. Hanna male NA 0 0 2677         38 37       38 0 ?       Cann, Mr. Ernest Charles male 21.0 0 0 A./5. 2152	35 34	35	0	1	Meyer, Mr. Edgar Joseph	male	28.0	1	0	PC 17604	
37 36       37       1       3       Mamee, Mr. Hanna male NA 0 0 2677         38 37       38 0 ?       Cann, Mr. Ernest Charles male 21.0 0 0 A./5. 2152	36 35	36	0	1	Holverson, Mr. Alexander Oskar	male	42.0	1	0	113789	
,	37 36	37	1	3		male	NA	0	0	2677	
39 38 39 0 3 Vander Planke. Miss. Augusta Maria female 18.0 2 0 345764	38 37	38	0	?	Cann, Mr. Ernest Charles	male	21.0	0	0	A./5. 2152	
	39 38	39	0	3	Vander Planke, Miss. Augusta Maria	female	18.0	2	0	345764	

40	39	40	1 3	}	Nicola-Yarred, Miss. Jamila	female	14.0	1	0	2651
41		41	0 3		Ahlin, Mrs. Johan (Johanna Persdotter Larsson)			1	0	7546
42		42	0 2		, Mrs. William John Robert (Dorothy Ann Wonnacott)			1	0	11668
43	42	43	0 3	,	Kraeff, Mr. Theodor	male	. NA	0	0	349253
44	43	44	1 2	!	Laroche, Miss. Simonne Marie Anne Andree	female	3.0	1	2	SC/Paris 2123
45	44	45	1 3	}	Devaney, Miss. Margaret Delia	female	19.0	0	0	330958
46	45	46	0 3	}	Rogers, Mr. William John	male	. NA	0	0	S.C./A.4. 23567
47	46	47	0 3	}	Lennon, Mr. Denis	male	. NA	1	0	370371
48	47	48	1 3	}	O'Driscoll, Miss. Bridget	female	NA.	0	0	14311
49	48	49	0 3	}	Samaan, Mr. Youssef	male	. NA	2	0	2662
50	49	50	0 3	}	Arnold-Franchi, Mrs. Josef (Josefine Franchi)	female	18.0	1	0	349237
51	50	51	0 3	}	Panula, Master. Juha Niilo	male	7.0	4	1	3101295
52	51	52	0 3	}	Nosworthy, Mr. Richard Cater	male	21.0	0	0	A/4. 39886
53	52	53	1 1	_	Harper, Mrs. Henry Sleeper (Myna Haxtun)	female	49.0	1	0	PC 17572
54	53	54	1 2	!	Faunthorpe, Mrs. Lizzie (Elizabeth Anne Wilkinson)	female	29.0	1	0	2926
55	54	55	0 1	_	Ostby, Mr. Engelhart Cornelius	male	65.0	0	1	113509
56	55	56	1 1	_	Woolner, Mr. Hugh	male	. NA	0	0	19947
57	56	57	1 2	!	Rugg, Miss. Emily	female	21.0	0	0	C.A. 31026
58	57	58	0 3	}	Novel, Mr. Mansouer		28.5	0	0	2697
59	58	59	1 2	!	West, Miss. Constance Mirium	female	5.0	1	2	C.A. 34651
60	59	60	0 3	}	Goodwin, Master. William Frederick	male	11.0	5	2	CA 2144
61	60	61	0 3	}	Sirayanian, Mr. Orsen	male	22.0	0	0	2669
62	61	62	1 ?	•	Icard, Miss. Amelie	female	38.0	0	0	113572
63	62	63	0 1		Harris, Mr. Henry Birkhardt	male	45.0	1	0	36973
64	63	64	0 3	}	Skoog, Master. Harald	male	4.0	3	2	347088
65	64	65	0 1	<u>-</u>	Stewart, Mr. Albert A	male	. NA	0	0	PC 17605
66	65	66	1 3	}	Moubarek, Master. Gerios	male	. NA	1	1	2661
67	66	67	1 2	!	Nye, Mrs. (Elizabeth Ramell)	female	29.0	0	0	C.A. 29395
68	67	68	0 3	}	Crease, Mr. Ernest James	male	19.0	0	0	S.P. 3464
69	68	69	1 3	}	Andersson, Miss. Erna Alexandra	female	17.0	4	2	3101281
70	69	70	0 3	}	Kink, Mr. Vincenz	male	26.0	2	0	315151
71	70	71	0 2	!	Jenkin, Mr. Stephen Curnow	male	32.0	0	0	C.A. 33111
	Fare	Cabin	Embarked	FamSize						
1	7.2500		S	1						
2	71.2833	C85	С	1						
3	7.9250		S	0						
4	53.1000	C123	S	1						
5	8.0500		S	0						
6	8.4583		Q	0						
7	51.8625	E46	S	0						
8	21.0750		S	4						
9	11.1333		S	2						
10	30.0708		С	1						
11	16.7000	G6	S	2						
12	26.5500	C103	S	0						
13	8.0500		S	0						
14	31.2750		S	6						

15	7.8542				9	0
16	16.0000				9	
17	29.1250				C	
18	13.0000				9	
19	18.0000				9	
20	7.2250				(	
21	26.0000				9	
22	13.0000			D56	9	
23	8.0292				(	
24	35.5000			А6	9	
25	21.0750				9	
26	31.3875				9	
27	7.2250	-22	-25	-0.	(	
28	263.0000	C23	C25	C27	9	
29	7.8792				(	
30	7.8958				9	
31	27.7208			-70	(	
32	146.5208			в78	(	
33	7.7500				(	
34	10.5000				9	
35	82.1708				(	
36 37	52.0000				9	
38	7.2292 8.0500				9	
39	18.0000				3	
40	11.2417					
41	9.4750				9	
42	21.0000				9	
43	7.8958				-	
44	41.5792					
45	7.8792				(	
46	8.0500				9	•
47	15.5000					
48	7.7500				Č	
49	21.6792				(	
50	17.8000				9	
51	39.6875				9	
52	7.8000				9	
53	76.7292			D33	(	. 1
54	26.0000				9	
55	61.9792			в30	(	. 1
56	35.5000			C52	9	0
57	10.5000				9	5 0
58	7.2292				(	0
59	27.7500				9	3
60	46.9000				9	5 7
61	7.2292				(	0

```
62 80.0000
                   в28
                                      0
63 83.4750
                   C83
                              S
                                      1
64 27.9000
                                      5
65 27.7208
                                      0
66 15.2458
                              C
                                      2
67 10.5000
                   F33
                                      0
                              S
68 8.1583
                                      0
                              S
69 7.9250
                              S
                                      6
                                      2
70 8.6625
                              S
71 10.5000
                              S
                                      0
 [ reached 'max' / getOption("max.print") -- omitted 820 rows ]
> passengers %>% group_by(Sex) %>% summarise(meanFare = mean(Fare), numSurv = sum(Survived)) #This operation groups the data by Sex (female and male),
                 then creates a mean or average of the Fare amount for each Sex and the number that survived for each Sex
# A tibble: 2 \times 3
        meanFare numSurv
  Sex
  <chr>
            <db1>
1 female
            44.5
                     233
2 male
            25.5
                     109
```

>