> 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)

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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									
>	#4. (b)															
>	> pass	engers %>%	filter(Sex == "n	nale") #	#This opera [.]	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	
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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	
Embarke								
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73
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 [ 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
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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				C			
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	С
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	-	C
	-	2 . 2 2 . 3 2 . 4 . 5 2 . 1 . 5 3		-

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73
          0 PC 17604 82.1708
                                         C
74
        2 33638 81.8583
                                  A34
                                           S
        0 113572 80.0000
75
                                  в28
        0 113572 80.0000
76
                                   в28
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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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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 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				S	0
16	16.0000				S	0
17	29.1250				Q	5
18	13.0000				S	0
19	18.0000				S	1
20	7.2250				C	0
21	26.0000				S	0
22	13.0000			D56	S	0
23	8.0292				Q	0
24	35.5000			А6	S	0
25	21.0750				S	4
26	31.3875				S	6
27	7.2250	-22 -	. -	-0-	C	0
28	263.0000	C23 C	25	C27	S	5
29	7.8792				Q	0
30	7.8958				S	0
31	27.7208			570	С	0
32	146.5208			в78	C	1
33 34	7.7500				Q	0
	10.5000				S	0
35 36	82.1708 52.0000				c s	1 1
37	7.2292				S C	0
38	8.0500				S	0
39	18.0000				S	2
40	11.2417				C	1
41	9.4750				S	1
42	21.0000				S	1
43	7.8958				c	0
44	41.5792				c	3
45	7.8792				Q	0
46	8.0500				s	0
47	15.5000				Q	1
48	7.7500				Q	0
49	21.6792				С	2
50	17.8000				S	1
51	39.6875				S	5
52	7.8000				S	0
53	76.7292			D33	С	1
54	26.0000				S	1
55	61.9792			в30	С	1
56	35.5000			C52	S	0
57	10.5000				S	0
58	7.2292				С	0
59	27.7500				S	3
60	46.9000				S	7
61	7.2292				С	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
            <db1>
  <chr>
1 female
            44.5
                     233
2 male
            25.5
                     109
```

>