

FML_ASSIGNMENT1

2023-09-10

#I have taken dataset from “kaggle.com” from the url “https://www.kaggle.com/datasets/priyanshuthi/mcdonalds-nutrition-dataset”.

```
McDdata <- read.csv("mcdonalddata.csv")
head(McDdata)
```

```
##      X                item servesize calories protien totalfat satfat
## 1 0          McVeggie Burger      168      402    10.24    13.83    5.34
## 2 1          McAloo Tikki Burger    146      339     8.50    11.31    4.27
## 3 2 McSpicy\0099 Paneer Burger    199      652    20.29    39.45    17.12
## 4 3          Spicy Paneer Wrap     250      674    20.96    39.10    19.73
## 5 4          American Veg Burger   177      512    15.30    23.45    10.51
## 6 5          Veg Maharaja Mac      306      832    24.17    37.94    16.83
## transfat cholestrol carbs sugar addedsugar sodium menu
## 1    0.16      2.49 56.54 7.90      4.49 706.13 regular
## 2    0.20      1.47 5.27 7.05      4.07 545.34 regular
## 3    0.18     21.85 52.33 8.35      5.27 1074.58 regular
## 4    0.26     40.93 59.27 3.50      1.08 1087.46 regular
## 5    0.17     25.24 56.96 7.85      4.76 1051.24 regular
## 6    0.28     36.19 93.84 11.52     6.92 1529.22 regular
```

```
summary(McDdata$protien)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##    0.000   0.650   4.790   7.493  10.880   39.470
```

```
summary(McDdata$totalfat)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##    0.00   0.46   7.77   10.06   14.16   45.18
```

#printing descriptive statistics for categorical variable(menu)

```
table(McDdata$menu)
```

```
##
## beverage breakfast condiments dessert gourmet mccafe regular
##      17         8         9         12         11         48         36
```

#printing descriptive statistics for categorical variable(item)

```
table(McDdata$item)
```

```
##
##          Chicken Maharaja Mac
##                               1
##          Flat White (S)
##                               1
##          L1 Coffee
##                               1
##          Large Fries
##                               1
##          Latte (L) p
##                               1
##          Mc Spicy Chicken Burger
##                               1
##          Spicy Chicken Wrap
##                               1
##          2 piece Chicken Strips
##                               1
##          3 piece Chicken Strips
##                               1
##          4 piece Chicken McNuggets
##                               1
##          5 piece Chicken Strips
##                               1
##          6 piece Chicken McNuggets
##                               1
##          9 piece Chicken McNuggets
##                               1
##          American Chicken Burger
##                               1
##          American Mud Pie Shake
##                               1
##          American Triple Cheese Chicken
##                               1
##          American Triple Cheese Veg
##                               1
##          American Veg Burger
##                               1
##          Americano (L)
##                               1
##          Americano (R)
##                               1
##          Americano (S)
##                               1
##          Babycino
##                               1
##          BBQ dipping sauce
##                               1
##          Cappuccino (L)
##                               1
##          Cappuccino (R)
##                               1
```

##	Cappuccino (S)	
##		1
##	Cheese Lava Burger	
##		1
##	Cheese Slice	
##		1
##	Cheesy Veg Nuggets (6pc)	
##		1
##	Cheesy Veg Nuggets (9pc)	
##		1
##	Chicken Cheese Lava Burger	
##		1
##	Chicken Kebab Burger	
##		1
##	Chilli Sauce	
##		1
##	Chocolate Oreo Frappe	
##		1
##	Chocolate Shake	
##		1
##	Chunky Chipotle American Burger Chicken	
##		1
##	Coke Float	
##		1
##	Coke Zero Can	
##		1
##	Cold Coffee Frappe	
##		1
##	Double Cheese McMuffin	
##		1
##	Double Chocochips Muffin	
##		1
##	Double Dark Hot Chocolate	
##		1
##	Egg McMuffin	
##		1
##	English Breakfast (L)	
##		1
##	English Breakfast (R)	
##		1
##	English Breakfast (S) p	
##		1
##	Espresso	
##		1
##	Espresso Machiato	
##		1
##	Fanta Float	
##		1
##	FILLET-O-FISH Burger	
##		1
##	Flat White (L)	
##		1
##	Flat White (R) p	
##		1

##	Ghee Rice with Mc Spicy Fried Chicken 1 pc	
##		1
##	Green Apple Ice Tea	
##		1
##	Green Chilli Aloo Naan p	
##		1
##	Green Chilli Kebab naan	
##		1
##	Hash Brown	
##		1
##	Hot Cake with maple syrup	
##		1
##	Hot Chocolate (L)	
##		1
##	Hot Chocolate (R)	
##		1
##	Hot Chocolate	
##		1
##	Iced Americano	
##		1
##	Iced Coffee	
##		1
##	L1 Coffee with milk	
##		1
##	Large Coca-Cola	
##		1
##	Large Fanta Orange	
##		1
##	Large Sprite	
##		1
##	Large Thums-up	
##		1
##	Large Wedges	
##		1
##	Latte (R)	
##		1
##	Latte (S)	
##		1
##	Lemon Ice Tea	
##		1
##	Mango Smoothie	
##		1
##	Maple Syrup	
##		1
##	Mc chicken Burger	
##		1
##	Mc Egg Burger for Happy Meal	
##		1
##	Mc Egg Masala Burger	
##		1
##	McAloo Tikki Burger	
##		1
##	McSpicy Fried Chicken 1 pc	
##		1

##	McSpicy Premium Chicken Burger	
##		1
##	McSpicy Premium Veg Burger	
##		1
##	McSpicy\u0099 Paneer Burger	
##		1
##	McSwirl ChocoDip	
##		1
##	McVeggie Burger	
##		1
##	Medium Blackforest	
##		1
##	Medium Coca-Cola	
##		1
##	Medium Fanta Orange	
##		1
##	Medium Fries	
##		1
##	Medium Soft Serve: Brownie with Hot Fudge	
##		1
##	Medium Soft Serve: Hot Fudge	
##		1
##	Medium Soft Serve: Strawberry	
##		1
##	Medium Sprite	
##		1
##	Medium Thums-up	
##		1
##	Medium Wedges	
##		1
##	Mix Berry Cooler	
##		1
##	Mixed Berry Smoothie	
##		1
##	Mixed Fruit Beverage	
##		1
##	Mocha (L)	
##		1
##	Mocha (R)	
##		1
##	Mocha (S)	
##		1
##	Mocha Frappe	
##		1
##	Moroccon Mint Green Tea (L)	
##		1
##	Moroccon Mint Green Tea (R)	
##		1
##	Moroccon Mint Green Tea (S)	
##		1
##	Mustard dipping sauce	
##		1
##	Piri piri Mc Spicy Chicken Burger	
##		1

##	Piri piri Mc Spicy Veg Burger	
##		1
##	Piri Piri Mix	
##		1
##	Pizza Puff	
##		1
##	Premium Dark Hot Chocolate	
##		1
##	Raw Mango Cooler	
##		1
##	RDA Strawberry Shake	
##		1
##	Regular Blackforest	
##		1
##	Regular Fries	
##		1
##	Regular McFlurry - Oreo	
##		1
##	Regular Soft Serve: Brownie with Hot Fudge	
##		1
##	Regular Soft Serve: Hot Fudge	
##		1
##	Regular Soft Serve: Strawberry	
##		1
##	Regular Wedges	
##		1
##	Sausage Mc Muffin	
##		1
##	Sausage Mc Muffin with egg	
##		1
##	Small Coca-Cola	
##		1
##	Small Fanta Orange	
##		1
##	Small McFlurry - Oreo	
##		1
##	Small Sprite	
##		1
##	Small Thums-up	
##		1
##	Soft serve cone	
##		1
##	Spicy Egg McMuffin	
##		1
##	Spicy Paneer Wrap	
##		1
##	Sprite Float	
##		1
##	Strawberry Green Tea (L)	
##		1
##	Strawberry Green Tea (R)	
##		1
##	Strawberry Green Tea (S)	
##		1

```
##          Strawberry Ice Tea
##          1
##          Sweet Corn
##          1
##          Sweet Lime Beverage
##          1
##          Tomato Ketchup Sachets
##          1
##          Vanilla Chocochips Muffin
##          1
##          Vedica Natural Mineral Water
##          1
##          Veg Maharaja Mac
##          1
##          Veg McMuffin
##          1
```

```
library(dplyr)
```

```
##
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:stats':
##
##   filter, lag
```

```
## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union
```

```
McDdata_arr1 <- arrange(McDdata, servesize)
print(McDdata_arr1)
```

```
##      X          item servesize calories protien
## 1  134      Chilli Sauce         10      8.07    0.03
## 2   37 Double Cheese McMuffin        100    273.78   9.58
## 3   27      Medium Fries         109     317    4.79
## 4  98 Regular Soft Serve: Brownie with Hot Fudge 110.79    205.26   3.20
## 5   39      Sausage Mc Muffin        112    281.44  16.25
## 6   41      Egg McMuffin          112    283.46  14.05
## 7   19      McSpicy Fried Chicken 1 pc         115     248   17.33
## 8   36      Veg McMuffin          119    309.35  10.22
## 9   17      Mc Egg Burger for Happy Meal         123     282   12.29
## 10  38      Spicy Egg McMuffin        123.2    278.27  11.49
## 11 100      Regular Blackforest    125.79    237.89   3.22
## 12  61      Babycino             127     143.5   3.87
## 13  95      Medium Soft Serve: Hot Fudge    132.08    197.45   3.49
## 14  97      Medium Soft Serve: Strawberry    132.08    156.14   2.05
## 15   6      Green Chilli Aloo Naan p        132     356   7.91
## 16 114      Cheesy Veg Nuggets (9pc)        135    378.43  12.72
## 17  15      Green Chilli Kebab naan        138     230   5.67
## 18  14      Chicken Kebab Burger        138     357   8.64
```

## 19	138	Cheese Slice	14	51.03	3.06
## 20	42	Hot Cake with maple syrup	142	432.98	8.60
## 21	22	9 piece Chicken McNuggets	144	381	22.56
## 22	1	McAloo Tikki Burger	146	339	8.50
## 23	103	Regular McFlurry - Oreo	147.38	209.39	3.58
## 24	65	Premium Dark Hot Chocolate	153	214.21	6.15
## 25	99	Medium Soft Serve: Brownie with Hot Fudge	155.08	311.39	4.65
## 26	30	Medium Wedges	156	280	5.44
## 27	40	Sausage Mc Muffin with egg	157	290.42	22.46
## 28	66	Double Dark Hot Chocolate	163	255.78	6.87
## 29	13	American Chicken Burger	165	446	20.29
## 30	0	McVeggie Burger	168	402	10.24
## 31	4	American Veg Burger	177	512	15.30
## 32	140	Mixed Fruit Beverage	180	72.25	0.65
## 33	10	Mc Spicy Chicken Burger	186	451	21.46
## 34	104	American Triple Cheese Chicken	195	457.94	24.43
## 35	2	McSpicy\u0099 Paneer Burger	199	652	20.29
## 36	32	L1 Coffee	200	7	0.00
## 37	101	Medium Blackforest	200.08	429.95	5.42
## 38	49	Cappuccino (S)	201.5	125.25	6.02
## 39	33	L1 Coffee with milk	205	36	1.00
## 40	112	Piri piri Mc Spicy Veg Burger	211	517.98	11.97
## 41	110	McSpicy Premium Veg Burger	212.5	634.71	22.44
## 42	31	Large Wedges	216	387	7.53
## 43	62	Hot Chocolate	223	239.42	6.73
## 44	111	Piri piri Mc Spicy Chicken Burger	228	443.40	25.63
## 45	52	Latte (S)	236.5	147.72	7.12
## 46	77	Strawberry Ice Tea	236.5	94.95	0.24
## 47	78	Green Apple Ice Tea	236.5	94.94	0.24
## 48	58	Mocha (S)	242.5	185.85	7.15
## 49	76	Lemon Ice Tea	245	121.86	0.27
## 50	132	Mustard dipping sauce	25	81.18	0.52
## 51	133	BBQ dipping sauce	25	54.89	0.26
## 52	3	Spicy Paneer Wrap	250	674	20.96
## 53	83	RDA Strawberry Shake	259	255.51	3.67
## 54	84	Chocolate Shake	259	270.9	4.13
## 55	63	Hot Chocolate (R)	259	296.81	7.70
## 56	44	Espresso	26.5	12.87	0.52
## 57	90	Iced Americano	266.5	150.85	3.59
## 58	55	Flat White (S)	266.5	166.99	8.06
## 59	46	Americano (S)	276.5	12.87	0.52
## 60	67	English Breakfast (S) p	279	9.93	0.56
## 61	70	Moroccon Mint Green Tea (S)	279	6.25	0.33
## 62	73	Strawberry Green Tea (S)	279	7.03	0.47
## 63	85	Mango Smoothie	280	231.44	3.21
## 64	128	Fanta Float	286.79	151.56	1.52
## 65	129	Sprite Float	286.79	145.16	1.52
## 66	127	Coke Float	286.79	138.76	1.52
## 67	86	Mixed Berry Smoothie	290	235.43	3.33
## 68	79	Iced Coffee	291.5	185.34	4.36
## 69	80	Cold Coffee Frappe	296.5	331.17	4.98
## 70	50	Cappuccino (R)	297.5	183.61	8.79
## 71	121	Small Thums-up	299	99.6	0.00
## 72	115	Small Coca-Cola	299	109.56	0.00

## 73	118	Small Fanta Orange	299	129.48	0.00
## 74	124	Small Sprite	299	119.52	0.00
## 75	137	Maple Syrup	3	86.4	0.00
## 76	5	Veg Maharaja Mac	306	832	24.17
## 77	53	Latte (R)	307.5	190.03	9.10
## 78	88	Mix Berry Cooler	310	103.85	0.16
## 79	89	Sweet Lime Beverage	310	128.21	0.07
## 80	87	Raw Mango Cooler	310	102.38	0.14
## 81	59	Mocha (R)	311.5	244	8.99
## 82	91	American Mud Pie Shake	317	398.19	5.67
## 83	81	Mocha Frappe	320.5	397.98	5.49
## 84	18	Ghee Rice with Mc Spicy Fried Chicken 1 pc	325	720	26.91
## 85	71	Moroccon Mint Green Tea (R)	330	7.39	0.40
## 86	130	Coke Zero Can	330	0.99	0.00
## 87	68	English Breakfast (R)	330	11.75	0.66
## 88	74	Strawberry Green Tea (R)	330	8.32	0.56
## 89	82	Chocolate Oreo Frappe	334	181.11	6.03
## 90	47	Americano (R)	347.5	23.07	0.94
## 91	56	Flat White (R) p	347.5	215.72	10.36
## 92	51	Cappuccino (L)	355	219.36	10.51
## 93	64	Hot Chocolate (L)	367	383.29	11.01
## 94	54	Latte (L) p	375	232.2	11.14
## 95	60	Mocha (L)	377	302.02	10.88
## 96	122	Medium Thums-up	394	137.6	0.00
## 97	116	Medium Coca-Cola	394	151.36	0.00
## 98	119	Medium Fanta Orange	394	178.88	0.00
## 99	125	Medium Sprite	394	165.12	0.00
## 100	139	Sweet Corn	40	45.08	1.47
## 101	57	Flat White (L)	405	251.47	12.08
## 102	48	Americano (L)	455	26.71	1.09
## 103	69	English Breakfast (L)	456	16.23	0.91
## 104	72	Moroccon Mint Green Tea (L)	456	10.21	0.55
## 105	75	Strawberry Green Tea (L)	456	11.49	0.78
## 106	135	Piri Piri Mix	5	17.13	0.51
## 107	131	Vedica Natural Mineral Water	500	0	0.00
## 108	123	Large Thums-up	544	197.6	0.00
## 109	117	Large Coca-Cola	544	217.36	0.00
## 110	120	Large Fanta Orange	544	256.88	0.00
## 111	126	Large Sprite	544	237.12	0.00
## 112	23	2 piece Chicken Strips	58	164	10.17
## 113	20	4 piece Chicken McNuggets	64	169	10.03
## 114	43	Hash Brown	64	140.29	1.93
## 115	45	Espresso Machiato	76.5	44.98	2.09
## 116	26	Regular Fries	77	224	3.38
## 117	136	Tomato Ketchup Sachets	8	11.23	0.08
## 118	34	Double Chocochips Muffin	80	342	5.13
## 119	35	Vanilla Chocochips Muffin	80	329	4.48
## 120	92	Soft serve cone	81.29	85.73	1.99
## 121	102	Small McFlurry - Oreo	86.79	116.36	2.05
## 122	7	Pizza Puff	87	228	5.45
## 123	113	Cheesy Veg Nuggets (6pc)	90	252.29	8.48
## 124	96	Regular Soft Serve: Strawberry	91.79	100.99	1.54
## 125	94	Regular Soft Serve: Hot Fudge	91.79	121.64	2.25
## 126	93	McSwirl ChocoDip	93.29	160.14	2.71

## 127	21	6 piece Chicken McNuggets	96	254	15.04				
## 128	29	Regular Wedges	114	204	3.97				
## 129	16	Mc Egg Masala Burger	126.2	290	12.45				
## 130	9	FILLET-O-FISH Burger	136	348	15.44				
## 131	25	5 piece Chicken Strips	145	411	25.43				
## 132	28	Large Fries	154	449	6.76				
## 133	8	Mc chicken Burger	173	400	15.66				
## 134	105	American Triple Cheese Veg	207	524.69	19.54				
## 135	106	Cheese Lava Burger	240	671.06	14.99				
## 136	11	Spicy Chicken Wrap	257	567	23.74				
## 137	109	McSpicy Premium Chicken Burger	264.5	622.25	31.49				
## 138	12	Chicken Maharaja Mac	296	689	34.00				
## 139	108	Chunky Chipotle American Burger Chicken	301	641.36	39.47				
## 140	107	Chicken Cheese Lava Burger	307	834.36	27.37				
## 141	24	3 piece Chicken Strips	87	246	15.26				
##		totalfat	satfat	transfat	cholesterol	carbs	sugar	addedsugar	sodium
## 1		0.01	0.010	0.01	0.100	1.99	1.53	1.34	5.660
## 2		12.82	8.840	0.21	37.750	29.00	2.59	0.75	622.950
## 3		14.70	7.040	0.15	1.090	38.34	0.48	0.00	216.790
## 4		5.45	3.650	0.10	6.040	35.26	20.75	14.39	100.890
## 5		10.81	6.040	0.17	53.020	28.62	2.38	0.75	742.600
## 6		12.31	6.920	0.17	233.300	28.12	2.38	0.75	519.310
## 7		14.29	2.820	0.06	31.110	12.70	0.32	0.00	873.890
## 8		11.78	7.290	0.18	25.310	38.86	3.02	0.75	804.630
## 9		12.21	3.630	0.11	213.090	31.32	3.28	3.64	399.410
## 10		11.81	3.430	0.11	212.610	31.37	2.63	1.05	773.600
## 11		5.47	3.660	0.11	6.190	43.42	27.79	19.94	104.470
## 12		4.38	3.080	0.15	12.270	22.85	18.53	9.21	96.440
## 13		6.87	5.160	0.13	8.550	30.42	27.01	16.90	110.390
## 14		2.36	1.740	0.10	6.550	31.77	28.20	20.32	48.280
## 15		15.08	6.110	0.24	9.450	46.36	4.53	1.15	579.600
## 16		29.30	11.300	0.14	30.050	35.40	1.96	0.00	21.170
## 17		9.32	3.270	0.19	8.740	31.06	4.89	1.15	410.780
## 18		14.02	4.840	0.13	1.510	47.90	3.64	3.49	548.790
## 19		3.99	0.000	0.00	13.430	0.72	0.54	0.00	15.000
## 20		14.02	7.110	0.32	28.140	68.01	25.72	13.50	615.740
## 21		21.46	10.020	0.06	55.480	23.62	0.44	0.00	704.810
## 22		11.31	4.270	0.20	1.470	5.27	7.05	4.07	545.340
## 23		6.81	4.070	0.12	8.000	33.42	25.35	19.23	150.900
## 24		5.96	4.270	0.15	14.730	33.04	25.73	1.04	68.280
## 25		7.46	4.710	0.13	7.780	55.24	27.94	20.28	146.400
## 26		9.79	4.640	0.18	1.330	39.33	0.66	0.00	487.760
## 27		15.94	8.080	0.22	264.800	28.87	2.61	0.75	804.040
## 28		6.32	4.490	0.16	14.830	41.29	31.81	1.35	70.260
## 29		22.94	7.280	0.15	47.630	38.54	5.08	4.76	1132.300
## 30		13.83	5.340	0.16	2.490	56.54	7.90	4.49	706.130
## 31		23.45	10.510	0.17	25.240	56.96	7.85	4.76	1051.240
## 32		0.02	0.220	0.04	0.010	18.00	16.83	0.00	0.040
## 33		19.36	7.630	0.18	66.040	46.08	2.52	4.49	928.520
## 34		22.65	11.560	0.17	71.230	37.45	7.64	3.84	1396.170
## 35		39.45	17.120	0.18	21.850	52.33	8.35	5.27	1074.580
## 36		0.00	0.000	0.08	0.000	1.70	0.00	0.00	0.000
## 37		9.76	6.470	0.19	9.230	79.04	45.45	35.22	188.200
## 38		7.01	5.150	0.20	21.270	11.02	8.40	0.00	90.390

## 39	2.00	1.200	0.08	6.000	1.60	3.45	0.00	14.000
## 40	24.53	6.014	0.18	8.100	58.87	12.87	6.67	1170.890
## 41	39.21	20.460	0.20	43.680	46.00	7.57	3.28	1446.870
## 42	13.55	6.430	0.00	1.840	54.46	0.92	0.00	675.350
## 43	7.77	5.490	0.26	22.030	37.08	30.31	15.29	167.210
## 44	17.30	4.010	0.19	64.190	43.29	9.29	6.32	1229.860
## 45	8.41	6.180	0.24	25.470	12.71	10.06	0.00	108.400
## 46	0.16	0.160	0.16	1.570	24.17	21.10	20.27	9.720
## 47	0.16	0.160	0.16	1.570	24.17	20.75	19.94	9.610
## 48	8.20	5.950	0.26	24.430	22.59	17.57	6.08	132.840
## 49	0.18	0.180	18.00	1.650	30.59	26.53	25.60	10.260
## 50	5.57	1.780	0.47	0.290	7.24	6.66	4.00	221.320
## 51	0.49	0.150	0.04	0.250	12.36	7.65	2.50	113.230
## 52	39.10	19.730	0.26	40.930	59.27	3.50	1.08	1087.460
## 53	7.44	6.680	0.12	8.390	44.07	37.42	29.80	139.970
## 54	7.70	6.740	0.14	8.390	46.76	37.78	27.88	178.460
## 55	8.76	6.130	0.32	24.590	48.41	39.24	21.37	207.090
## 56	0.03	0.030	0.03	0.270	2.55	0.13	0.00	0.320
## 57	3.57	2.620	0.13	9.760	26.01	21.58	14.00	62.750
## 58	9.60	7.060	0.27	29.070	14.16	11.47	0.00	123.840
## 59	0.03	0.030	0.03	0.270	2.55	0.13	0.00	0.320
## 60	0.28	0.280	0.28	2.790	0.28	1.40	0.00	13.840
## 61	0.28	0.280	0.28	2.790	2.79	1.40	0.00	14.950
## 62	0.28	0.280	0.28	2.800	2.80	1.40	0.00	14.540
## 63	3.63	2.650	0.14	9.890	46.25	38.87	29.72	85.450
## 64	1.75	1.280	0.25	4.700	27.74	31.43	27.74	47.090
## 65	1.75	1.280	0.25	4.700	26.14	29.83	26.14	24.750
## 66	1.75	1.280	0.05	4.700	24.54	28.23	24.54	66.610
## 67	3.59	2.640	0.15	9.990	47.16	43.00	33.65	92.070
## 68	4.45	3.260	0.15	12.130	31.88	26.95	17.50	78.350
## 69	14.73	13.910	0.16	9.180	45.39	35.57	27.51	188.930
## 70	10.02	7.370	0.30	30.480	16.67	12.05	0.00	129.240
## 71	0.00	0.000	0.00	0.000	24.90	24.90	24.90	34.740
## 72	0.00	0.000	0.00	0.000	27.39	27.39	27.39	29.240
## 73	0.00	0.000	0.00	0.000	32.37	32.37	32.37	76.710
## 74	0.00	0.000	0.00	0.000	29.88	29.88	29.88	2.790
## 75	0.00	0.000	0.40	0.300	21.60	16.20	5.34	71.050
## 76	37.94	16.830	0.28	36.190	93.84	11.52	6.92	1529.220
## 77	10.42	7.670	0.31	31.680	17.15	12.52	0.00	134.390
## 78	0.04	0.040	0.04	0.400	25.56	21.25	20.52	23.820
## 79	0.08	0.000	0.00	0.000	31.72	28.72	28.08	66.200
## 80	0.04	0.040	0.04	0.400	25.18	21.06	19.28	102.680
## 81	9.91	7.170	0.34	29.520	31.72	23.56	9.12	168.470
## 82	12.77	11.380	0.20	10.890	64.75	53.40	34.35	185.730
## 83	15.01	14.000	0.20	9.420	60.93	47.55	36.63	233.320
## 84	29.20	5.080	0.30	31.320	77.47	0.58	0.35	2399.490
## 85	0.33	0.330	0.33	3.300	3.30	1.65	0.00	17.690
## 86	0.00	0.000	0.00	0.000	0.00	0.00	0.00	2.900
## 87	0.33	0.330	0.33	3.300	0.33	1.65	0.00	16.370
## 88	0.33	0.330	0.33	3.300	3.30	1.65	0.00	17.190
## 89	18.89	15.910	0.22	9.369	72.51	55.14	44.35	332.600
## 90	0.05	0.050	0.05	0.480	4.57	0.24	0.00	0.570
## 91	12.02	8.840	0.35	36.480	19.08	14.41	0.00	154.980
## 92	12.03	8.850	0.36	36.550	19.81	14.45	0.00	155.060

## 93	12.84	9.090	0.43	36.670	58.43	47.96	24.41	273.350
## 94	12.82	9.430	0.38	38.950	20.77	15.40	0.00	165.360
## 95	12.01	8.670	0.41	35.670	40.04	29.96	12.16	209.090
## 96	0.00	0.000	0.00	0.000	34.40	34.40	34.40	49.890
## 97	0.00	0.000	0.00	0.000	37.84	37.84	37.84	41.990
## 98	0.00	0.000	0.00	0.000	44.71	44.72	44.72	110.160
## 99	0.00	0.000	0.00	0.000	41.28	41.28	41.28	4.000
## 100	1.00	2.890	0.01	2.000	7.55	2.54	0.00	178.950
## 101	14.02	10.310	41.00	42.550	22.22	16.81	0.00	180.800
## 102	0.06	0.060	0.06	0.550	5.30	0.28	0.00	0.650
## 103	0.46	0.460	0.46	4.560	0.46	2.28	0.00	22.620
## 104	0.46	0.460	0.46	4.560	4.56	2.28	0.00	24.440
## 105	0.46	0.460	0.46	0.460	4.56	2.28	0.00	23.760
## 106	0.36	0.050	0.01	0.050	2.50	0.66	0.40	65.240
## 107	0.00	0.000	0.00	0.000	0.00	0.00	0.00	0.000
## 108	0.00	0.000	0.00	0.000	49.40	49.40	49.40	2.020
## 109	0.00	0.000	0.00	0.000	54.34	54.34	54.34	55.530
## 110	0.00	0.000	0.00	0.000	64.22	64.22	64.22	25.150
## 111	0.00	0.000	0.00	0.000	59.28	59.28	59.28	44.530
## 112	12.38	11.410	0.09	30.100	2.68	0.72	0.00	477.220
## 113	9.54	4.450	0.10	24.660	10.50	0.72	0.00	313.250
## 114	7.32	3.420	0.06	0.640	15.63	0.32	0.00	275.260
## 115	2.02	1.490	0.08	6.270	4.87	2.50	0.00	26.050
## 116	10.39	4.970	0.11	0.770	27.08	0.77	0.00	153.150
## 117	23.45	0.380	0.25	0.080	2.63	2.33	1.64	414.710
## 118	17.28	7.140	0.08	15.960	40.13	29.44	0.00	313.210
## 119	15.46	7.140	0.08	78.520	40.13	29.60	0.00	154.920
## 120	1.82	1.310	0.05	4.750	15.23	10.68	6.99	40.780
## 121	3.70	2.250	0.07	4.800	18.69	14.49	10.80	80.730
## 122	11.44	5.720	0.09	5.170	24.79	2.73	0.35	390.740
## 123	13.09	7.530	0.09	20.030	23.60	1.31	0.00	428.170
## 124	1.77	1.300	0.06	4.850	19.78	17.66	12.49	34.510
## 125	4.02	3.010	0.08	5.850	19.11	17.07	10.78	65.660
## 126	7.14	5.250	0.07	5.710	20.92	15.39	11.31	51.310
## 127	14.30	6.680	0.14	36.990	15.74	0.29	0.00	469.870
## 128	7.15	3.390	0.13	0.970	28.74	0.48	0.00	356.440
## 129	12.27	3.640	0.11	213.090	32.89	4.66	3.64	757.910
## 130	14.16	5.790	0.21	32.830	38.85	5.88	3.54	530.540
## 131	28.54	0.150	0.08	6.700	0.73	0.55	0.00	1193.052
## 132	20.77	9.950	0.10	1.540	54.16	0.77	0.00	306.290
## 133	15.70	5.470	0.16	31.170	47.98	5.53	4.49	766.330
## 134	23.16	14.780	0.19	48.740	56.24	7.90	3.84	1174.270
## 135	33.48	14.120	0.21	33.210	74.25	16.27	10.01	1153.990
## 136	26.89	12.540	0.27	87.630	57.06	8.92	1.08	1152.380
## 137	34.65	15.550	0.24	302.610	43.60	6.07	2.64	1614.880
## 138	36.69	10.330	0.25	81.490	55.39	7.48	6.14	1854.710
## 139	31.51	9.540	0.26	110.370	46.24	9.16	6.32	1906.270
## 140	45.18	17.000	0.27	73.110	76.03	16.75	10.01	1745.040
## 141	18.57	17.120	75.26	45.150	4.02	0.39	0.00	715.830
##	menu							
## 1	condiments							
## 2	breakfast							
## 3	regular							
## 4	dessert							

5 breakfast
6 breakfast
7 regular
8 breakfast
9 regular
10 breakfast
11 dessert
12 mccafe
13 dessert
14 dessert
15 regular
16 gourmet
17 regular
18 regular
19 condiments
20 breakfast
21 regular
22 regular
23 dessert
24 mccafe
25 dessert
26 regular
27 breakfast
28 mccafe
29 regular
30 regular
31 regular
32 condiments
33 regular
34 gourmet
35 regular
36 regular
37 dessert
38 mccafe
39 regular
40 gourmet
41 gourmet
42 regular
43 mccafe
44 gourmet
45 mccafe
46 mccafe
47 mccafe
48 mccafe
49 mccafe
50 condiments
51 condiments
52 regular
53 mccafe
54 mccafe
55 mccafe
56 mccafe
57 mccafe
58 mccafe

59 mccafe
60 mccafe
61 mccafe
62 mccafe
63 mccafe
64 beverage
65 beverage
66 beverage
67 mccafe
68 mccafe
69 mccafe
70 mccafe
71 beverage
72 beverage
73 beverage
74 beverage
75 condiments
76 regular
77 mccafe
78 mccafe
79 mccafe
80 mccafe
81 mccafe
82 mccafe
83 mccafe
84 regular
85 mccafe
86 beverage
87 mccafe
88 mccafe
89 mccafe
90 mccafe
91 mccafe
92 mccafe
93 mccafe
94 mccafe
95 mccafe
96 beverage
97 beverage
98 beverage
99 beverage
100 condiments
101 mccafe
102 mccafe
103 mccafe
104 mccafe
105 mccafe
106 condiments
107 beverage
108 beverage
109 beverage
110 beverage
111 beverage
112 regular

```
## 113    regular
## 114 breakfast
## 115    mccafe
## 116    regular
## 117 condiments
## 118    regular
## 119    regular
## 120    dessert
## 121    dessert
## 122    regular
## 123    gourmet
## 124    dessert
## 125    dessert
## 126    dessert
## 127    regular
## 128    regular
## 129    regular
## 130    regular
## 131    regular
## 132    regular
## 133    regular
## 134    gourmet
## 135    gourmet
## 136    regular
## 137    gourmet
## 138    regular
## 139    gourmet
## 140    gourmet
## 141    regular
```

```
McDdata_arr2 <- arrange(McDdata, item)
print(McDdata_arr2)
```

##	X	item	servesize	calories	protien
## 1	23	2 piece Chicken Strips	58	164	10.17
## 2	24	3 piece Chicken Strips	87	246	15.26
## 3	20	4 piece Chicken McNuggets	64	169	10.03
## 4	25	5 piece Chicken Strips	145	411	25.43
## 5	21	6 piece Chicken McNuggets	96	254	15.04
## 6	22	9 piece Chicken McNuggets	144	381	22.56
## 7	13	American Chicken Burger	165	446	20.29
## 8	91	American Mud Pie Shake	317	398.19	5.67
## 9	104	American Triple Cheese Chicken	195	457.94	24.43
## 10	105	American Triple Cheese Veg	207	524.69	19.54
## 11	4	American Veg Burger	177	512	15.30
## 12	48	Americano (L)	455	26.71	1.09
## 13	47	Americano (R)	347.5	23.07	0.94
## 14	46	Americano (S)	276.5	12.87	0.52
## 15	133	BBQ dipping sauce	25	54.89	0.26
## 16	61	Babycino	127	143.5	3.87
## 17	51	Cappuccino (L)	355	219.36	10.51
## 18	50	Cappuccino (R)	297.5	183.61	8.79
## 19	49	Cappuccino (S)	201.5	125.25	6.02
## 20	106	Cheese Lava Burger	240	671.06	14.99

## 21	138	Cheese Slice	14	51.03	3.06
## 22	113	Cheesy Veg Nuggets (6pc)	90	252.29	8.48
## 23	114	Cheesy Veg Nuggets (9pc)	135	378.43	12.72
## 24	107	Chicken Cheese Lava Burger	307	834.36	27.37
## 25	14	Chicken Kebab Burger	138	357	8.64
## 26	134	Chilli Sauce	10	8.07	0.03
## 27	82	Chocolate Oreo Frappe	334	181.11	6.03
## 28	84	Chocolate Shake	259	270.9	4.13
## 29	108	Chunky Chipotle American Burger Chicken	301	641.36	39.47
## 30	127	Coke Float	286.79	138.76	1.52
## 31	130	Coke Zero Can	330	0.99	0.00
## 32	80	Cold Coffee Frappe	296.5	331.17	4.98
## 33	37	Double Cheese McMuffin	100	273.78	9.58
## 34	34	Double Chocochips Muffin	80	342	5.13
## 35	66	Double Dark Hot Chocolate	163	255.78	6.87
## 36	41	Egg McMuffin	112	283.46	14.05
## 37	69	English Breakfast (L)	456	16.23	0.91
## 38	68	English Breakfast (R)	330	11.75	0.66
## 39	67	English Breakfast (S) p	279	9.93	0.56
## 40	44	Espresso	26.5	12.87	0.52
## 41	45	Espresso Machiato	76.5	44.98	2.09
## 42	9	FILLET-O-FISH Burger	136	348	15.44
## 43	128	Fanta Float	286.79	151.56	1.52
## 44	57	Flat White (L)	405	251.47	12.08
## 45	56	Flat White (R) p	347.5	215.72	10.36
## 46	18	Ghee Rice with Mc Spicy Fried Chicken 1 pc	325	720	26.91
## 47	78	Green Apple Ice Tea	236.5	94.94	0.24
## 48	6	Green Chilli Aloo Naan p	132	356	7.91
## 49	15	Green Chilli Kebab naan	138	230	5.67
## 50	43	Hash Brown	64	140.29	1.93
## 51	42	Hot Cake with maple syrup	142	432.98	8.60
## 52	64	Hot Chocolate (L)	367	383.29	11.01
## 53	63	Hot Chocolate (R)	259	296.81	7.70
## 54	62	Hot Chocolate	223	239.42	6.73
## 55	90	Iced Americano	266.5	150.85	3.59
## 56	79	Iced Coffee	291.5	185.34	4.36
## 57	33	L1 Coffee with milk	205	36	1.00
## 58	117	Large Coca-Cola	544	217.36	0.00
## 59	120	Large Fanta Orange	544	256.88	0.00
## 60	126	Large Sprite	544	237.12	0.00
## 61	123	Large Thums-up	544	197.6	0.00
## 62	31	Large Wedges	216	387	7.53
## 63	53	Latte (R)	307.5	190.03	9.10
## 64	52	Latte (S)	236.5	147.72	7.12
## 65	76	Lemon Ice Tea	245	121.86	0.27
## 66	85	Mango Smoothie	280	231.44	3.21
## 67	137	Maple Syrup	3	86.4	0.00
## 68	17	Mc Egg Burger for Happy Meal	123	282	12.29
## 69	16	Mc Egg Masala Burger	126.2	290	12.45
## 70	8	Mc chicken Burger	173	400	15.66
## 71	1	McAloo Tikki Burger	146	339	8.50
## 72	19	McSpicy Fried Chicken 1 pc	115	248	17.33
## 73	109	McSpicy Premium Chicken Burger	264.5	622.25	31.49
## 74	110	McSpicy Premium Veg Burger	212.5	634.71	22.44

## 75	2	McSpicy\0099 Paneer Burger	199	652	20.29
## 76	93	McSwirl ChocoDip	93.29	160.14	2.71
## 77	0	McVeggie Burger	168	402	10.24
## 78	101	Medium Blackforest	200.08	429.95	5.42
## 79	116	Medium Coca-Cola	394	151.36	0.00
## 80	119	Medium Fanta Orange	394	178.88	0.00
## 81	27	Medium Fries	109	317	4.79
## 82	99	Medium Soft Serve: Brownie with Hot Fudge	155.08	311.39	4.65
## 83	95	Medium Soft Serve: Hot Fudge	132.08	197.45	3.49
## 84	97	Medium Soft Serve: Strawberry	132.08	156.14	2.05
## 85	125	Medium Sprite	394	165.12	0.00
## 86	122	Medium Thums-up	394	137.6	0.00
## 87	30	Medium Wedges	156	280	5.44
## 88	88	Mix Berry Cooler	310	103.85	0.16
## 89	86	Mixed Berry Smoothie	290	235.43	3.33
## 90	140	Mixed Fruit Beverage	180	72.25	0.65
## 91	60	Mocha (L)	377	302.02	10.88
## 92	59	Mocha (R)	311.5	244	8.99
## 93	58	Mocha (S)	242.5	185.85	7.15
## 94	81	Mocha Frappe	320.5	397.98	5.49
## 95	72	Moroccan Mint Green Tea (L)	456	10.21	0.55
## 96	71	Moroccan Mint Green Tea (R)	330	7.39	0.40
## 97	70	Moroccan Mint Green Tea (S)	279	6.25	0.33
## 98	132	Mustard dipping sauce	25	81.18	0.52
## 99	135	Piri Piri Mix	5	17.13	0.51
## 100	111	Piri piri Mc Spicy Chicken Burger	228	443.40	25.63
## 101	112	Piri piri Mc Spicy Veg Burger	211	517.98	11.97
## 102	7	Pizza Puff	87	228	5.45
## 103	65	Premium Dark Hot Chocolate	153	214.21	6.15
## 104	83	RDA Strawberry Shake	259	255.51	3.67
## 105	87	Raw Mango Cooler	310	102.38	0.14
## 106	100	Regular Blackforest	125.79	237.89	3.22
## 107	26	Regular Fries	77	224	3.38
## 108	103	Regular McFlurry - Oreo	147.38	209.39	3.58
## 109	98	Regular Soft Serve: Brownie with Hot Fudge	110.79	205.26	3.20
## 110	94	Regular Soft Serve: Hot Fudge	91.79	121.64	2.25
## 111	96	Regular Soft Serve: Strawberry	91.79	100.99	1.54
## 112	29	Regular Wedges	114	204	3.97
## 113	39	Sausage Mc Muffin	112	281.44	16.25
## 114	40	Sausage Mc Muffin with egg	157	290.42	22.46
## 115	115	Small Coca-Cola	299	109.56	0.00
## 116	118	Small Fanta Orange	299	129.48	0.00
## 117	102	Small McFlurry - Oreo	86.79	116.36	2.05
## 118	124	Small Sprite	299	119.52	0.00
## 119	121	Small Thums-up	299	99.6	0.00
## 120	92	Soft serve cone	81.29	85.73	1.99
## 121	38	Spicy Egg McMuffin	123.2	278.27	11.49
## 122	3	Spicy Paneer Wrap	250	674	20.96
## 123	129	Sprite Float	286.79	145.16	1.52
## 124	75	Strawberry Green Tea (L)	456	11.49	0.78
## 125	74	Strawberry Green Tea (R)	330	8.32	0.56
## 126	73	Strawberry Green Tea (S)	279	7.03	0.47
## 127	77	Strawberry Ice Tea	236.5	94.95	0.24
## 128	139	Sweet Corn	40	45.08	1.47

## 129	89	Sweet Lime Beverage					310	128.21	0.07
## 130	136	Tomato Ketchup Sachets					8	11.23	0.08
## 131	35	Vanilla Chocochips Muffin					80	329	4.48
## 132	131	Vedica Natural Mineral Water					500	0	0.00
## 133	5	Veg Maharaja Mac					306	832	24.17
## 134	36	Veg McMuffin					119	309.35	10.22
## 135	12	Chicken Maharaja Mac					296	689	34.00
## 136	55	Flat White (S)					266.5	166.99	8.06
## 137	32	L1 Coffee					200	7	0.00
## 138	28	Large Fries					154	449	6.76
## 139	54	Latte (L) p					375	232.2	11.14
## 140	10	Mc Spicy Chicken Burger					186	451	21.46
## 141	11	Spicy Chicken Wrap					257	567	23.74
##		totalfat	satfat	transfat	cholesterol	carbs	sugar	addedsugar	sodium
## 1		12.38	11.410	0.09	30.100	2.68	0.72	0.00	477.220
## 2		18.57	17.120	75.26	45.150	4.02	0.39	0.00	715.830
## 3		9.54	4.450	0.10	24.660	10.50	0.72	0.00	313.250
## 4		28.54	0.150	0.08	6.700	0.73	0.55	0.00	1193.052
## 5		14.30	6.680	0.14	36.990	15.74	0.29	0.00	469.870
## 6		21.46	10.020	0.06	55.480	23.62	0.44	0.00	704.810
## 7		22.94	7.280	0.15	47.630	38.54	5.08	4.76	1132.300
## 8		12.77	11.380	0.20	10.890	64.75	53.40	34.35	185.730
## 9		22.65	11.560	0.17	71.230	37.45	7.64	3.84	1396.170
## 10		23.16	14.780	0.19	48.740	56.24	7.90	3.84	1174.270
## 11		23.45	10.510	0.17	25.240	56.96	7.85	4.76	1051.240
## 12		0.06	0.060	0.06	0.550	5.30	0.28	0.00	0.650
## 13		0.05	0.050	0.05	0.480	4.57	0.24	0.00	0.570
## 14		0.03	0.030	0.03	0.270	2.55	0.13	0.00	0.320
## 15		0.49	0.150	0.04	0.250	12.36	7.65	2.50	113.230
## 16		4.38	3.080	0.15	12.270	22.85	18.53	9.21	96.440
## 17		12.03	8.850	0.36	36.550	19.81	14.45	0.00	155.060
## 18		10.02	7.370	0.30	30.480	16.67	12.05	0.00	129.240
## 19		7.01	5.150	0.20	21.270	11.02	8.40	0.00	90.390
## 20		33.48	14.120	0.21	33.210	74.25	16.27	10.01	1153.990
## 21		3.99	0.000	0.00	13.430	0.72	0.54	0.00	15.000
## 22		13.09	7.530	0.09	20.030	23.60	1.31	0.00	428.170
## 23		29.30	11.300	0.14	30.050	35.40	1.96	0.00	21.170
## 24		45.18	17.000	0.27	73.110	76.03	16.75	10.01	1745.040
## 25		14.02	4.840	0.13	1.510	47.90	3.64	3.49	548.790
## 26		0.01	0.010	0.01	0.100	1.99	1.53	1.34	5.660
## 27		18.89	15.910	0.22	9.369	72.51	55.14	44.35	332.600
## 28		7.70	6.740	0.14	8.390	46.76	37.78	27.88	178.460
## 29		31.51	9.540	0.26	110.370	46.24	9.16	6.32	1906.270
## 30		1.75	1.280	0.05	4.700	24.54	28.23	24.54	66.610
## 31		0.00	0.000	0.00	0.000	0.00	0.00	0.00	2.900
## 32		14.73	13.910	0.16	9.180	45.39	35.57	27.51	188.930
## 33		12.82	8.840	0.21	37.750	29.00	2.59	0.75	622.950
## 34		17.28	7.140	0.08	15.960	40.13	29.44	0.00	313.210
## 35		6.32	4.490	0.16	14.830	41.29	31.81	1.35	70.260
## 36		12.31	6.920	0.17	233.300	28.12	2.38	0.75	519.310
## 37		0.46	0.460	0.46	4.560	0.46	2.28	0.00	22.620
## 38		0.33	0.330	0.33	3.300	0.33	1.65	0.00	16.370
## 39		0.28	0.280	0.28	2.790	0.28	1.40	0.00	13.840
## 40		0.03	0.030	0.03	0.270	2.55	0.13	0.00	0.320

## 41	2.02	1.490	0.08	6.270	4.87	2.50	0.00	26.050
## 42	14.16	5.790	0.21	32.830	38.85	5.88	3.54	530.540
## 43	1.75	1.280	0.25	4.700	27.74	31.43	27.74	47.090
## 44	14.02	10.310	41.00	42.550	22.22	16.81	0.00	180.800
## 45	12.02	8.840	0.35	36.480	19.08	14.41	0.00	154.980
## 46	29.20	5.080	0.30	31.320	77.47	0.58	0.35	2399.490
## 47	0.16	0.160	0.16	1.570	24.17	20.75	19.94	9.610
## 48	15.08	6.110	0.24	9.450	46.36	4.53	1.15	579.600
## 49	9.32	3.270	0.19	8.740	31.06	4.89	1.15	410.780
## 50	7.32	3.420	0.06	0.640	15.63	0.32	0.00	275.260
## 51	14.02	7.110	0.32	28.140	68.01	25.72	13.50	615.740
## 52	12.84	9.090	0.43	36.670	58.43	47.96	24.41	273.350
## 53	8.76	6.130	0.32	24.590	48.41	39.24	21.37	207.090
## 54	7.77	5.490	0.26	22.030	37.08	30.31	15.29	167.210
## 55	3.57	2.620	0.13	9.760	26.01	21.58	14.00	62.750
## 56	4.45	3.260	0.15	12.130	31.88	26.95	17.50	78.350
## 57	2.00	1.200	0.08	6.000	1.60	3.45	0.00	14.000
## 58	0.00	0.000	0.00	0.000	54.34	54.34	54.34	55.530
## 59	0.00	0.000	0.00	0.000	64.22	64.22	64.22	25.150
## 60	0.00	0.000	0.00	0.000	59.28	59.28	59.28	44.530
## 61	0.00	0.000	0.00	0.000	49.40	49.40	49.40	2.020
## 62	13.55	6.430	0.00	1.840	54.46	0.92	0.00	675.350
## 63	10.42	7.670	0.31	31.680	17.15	12.52	0.00	134.390
## 64	8.41	6.180	0.24	25.470	12.71	10.06	0.00	108.400
## 65	0.18	0.180	18.00	1.650	30.59	26.53	25.60	10.260
## 66	3.63	2.650	0.14	9.890	46.25	38.87	29.72	85.450
## 67	0.00	0.000	0.40	0.300	21.60	16.20	5.34	71.050
## 68	12.21	3.630	0.11	213.090	31.32	3.28	3.64	399.410
## 69	12.27	3.640	0.11	213.090	32.89	4.66	3.64	757.910
## 70	15.70	5.470	0.16	31.170	47.98	5.53	4.49	766.330
## 71	11.31	4.270	0.20	1.470	5.27	7.05	4.07	545.340
## 72	14.29	2.820	0.06	31.110	12.70	0.32	0.00	873.890
## 73	34.65	15.550	0.24	302.610	43.60	6.07	2.64	1614.880
## 74	39.21	20.460	0.20	43.680	46.00	7.57	3.28	1446.870
## 75	39.45	17.120	0.18	21.850	52.33	8.35	5.27	1074.580
## 76	7.14	5.250	0.07	5.710	20.92	15.39	11.31	51.310
## 77	13.83	5.340	0.16	2.490	56.54	7.90	4.49	706.130
## 78	9.76	6.470	0.19	9.230	79.04	45.45	35.22	188.200
## 79	0.00	0.000	0.00	0.000	37.84	37.84	37.84	41.990
## 80	0.00	0.000	0.00	0.000	44.71	44.72	44.72	110.160
## 81	14.70	7.040	0.15	1.090	38.34	0.48	0.00	216.790
## 82	7.46	4.710	0.13	7.780	55.24	27.94	20.28	146.400
## 83	6.87	5.160	0.13	8.550	30.42	27.01	16.90	110.390
## 84	2.36	1.740	0.10	6.550	31.77	28.20	20.32	48.280
## 85	0.00	0.000	0.00	0.000	41.28	41.28	41.28	4.000
## 86	0.00	0.000	0.00	0.000	34.40	34.40	34.40	49.890
## 87	9.79	4.640	0.18	1.330	39.33	0.66	0.00	487.760
## 88	0.04	0.040	0.04	0.400	25.56	21.25	20.52	23.820
## 89	3.59	2.640	0.15	9.990	47.16	43.00	33.65	92.070
## 90	0.02	0.220	0.04	0.010	18.00	16.83	0.00	0.040
## 91	12.01	8.670	0.41	35.670	40.04	29.96	12.16	209.090
## 92	9.91	7.170	0.34	29.520	31.72	23.56	9.12	168.470
## 93	8.20	5.950	0.26	24.430	22.59	17.57	6.08	132.840
## 94	15.01	14.000	0.20	9.420	60.93	47.55	36.63	233.320

## 95	0.46	0.460	0.46	4.560	4.56	2.28	0.00	24.440
## 96	0.33	0.330	0.33	3.300	3.30	1.65	0.00	17.690
## 97	0.28	0.280	0.28	2.790	2.79	1.40	0.00	14.950
## 98	5.57	1.780	0.47	0.290	7.24	6.66	4.00	221.320
## 99	0.36	0.050	0.01	0.050	2.50	0.66	0.40	65.240
## 100	17.30	4.010	0.19	64.190	43.29	9.29	6.32	1229.860
## 101	24.53	6.014	0.18	8.100	58.87	12.87	6.67	1170.890
## 102	11.44	5.720	0.09	5.170	24.79	2.73	0.35	390.740
## 103	5.96	4.270	0.15	14.730	33.04	25.73	1.04	68.280
## 104	7.44	6.680	0.12	8.390	44.07	37.42	29.80	139.970
## 105	0.04	0.040	0.04	0.400	25.18	21.06	19.28	102.680
## 106	5.47	3.660	0.11	6.190	43.42	27.79	19.94	104.470
## 107	10.39	4.970	0.11	0.770	27.08	0.77	0.00	153.150
## 108	6.81	4.070	0.12	8.000	33.42	25.35	19.23	150.900
## 109	5.45	3.650	0.10	6.040	35.26	20.75	14.39	100.890
## 110	4.02	3.010	0.08	5.850	19.11	17.07	10.78	65.660
## 111	1.77	1.300	0.06	4.850	19.78	17.66	12.49	34.510
## 112	7.15	3.390	0.13	0.970	28.74	0.48	0.00	356.440
## 113	10.81	6.040	0.17	53.020	28.62	2.38	0.75	742.600
## 114	15.94	8.080	0.22	264.800	28.87	2.61	0.75	804.040
## 115	0.00	0.000	0.00	0.000	27.39	27.39	27.39	29.240
## 116	0.00	0.000	0.00	0.000	32.37	32.37	32.37	76.710
## 117	3.70	2.250	0.07	4.800	18.69	14.49	10.80	80.730
## 118	0.00	0.000	0.00	0.000	29.88	29.88	29.88	2.790
## 119	0.00	0.000	0.00	0.000	24.90	24.90	24.90	34.740
## 120	1.82	1.310	0.05	4.750	15.23	10.68	6.99	40.780
## 121	11.81	3.430	0.11	212.610	31.37	2.63	1.05	773.600
## 122	39.10	19.730	0.26	40.930	59.27	3.50	1.08	1087.460
## 123	1.75	1.280	0.25	4.700	26.14	29.83	26.14	24.750
## 124	0.46	0.460	0.46	0.460	4.56	2.28	0.00	23.760
## 125	0.33	0.330	0.33	3.300	3.30	1.65	0.00	17.190
## 126	0.28	0.280	0.28	2.800	2.80	1.40	0.00	14.540
## 127	0.16	0.160	0.16	1.570	24.17	21.10	20.27	9.720
## 128	1.00	2.890	0.01	2.000	7.55	2.54	0.00	178.950
## 129	0.08	0.000	0.00	0.000	31.72	28.72	28.08	66.200
## 130	23.45	0.380	0.25	0.080	2.63	2.33	1.64	414.710
## 131	15.46	7.140	0.08	78.520	40.13	29.60	0.00	154.920
## 132	0.00	0.000	0.00	0.000	0.00	0.00	0.00	0.000
## 133	37.94	16.830	0.28	36.190	93.84	11.52	6.92	1529.220
## 134	11.78	7.290	0.18	25.310	38.86	3.02	0.75	804.630
## 135	36.69	10.330	0.25	81.490	55.39	7.48	6.14	1854.710
## 136	9.60	7.060	0.27	29.070	14.16	11.47	0.00	123.840
## 137	0.00	0.000	0.08	0.000	1.70	0.00	0.00	0.000
## 138	20.77	9.950	0.10	1.540	54.16	0.77	0.00	306.290
## 139	12.82	9.430	0.38	38.950	20.77	15.40	0.00	165.360
## 140	19.36	7.630	0.18	66.040	46.08	2.52	4.49	928.520
## 141	26.89	12.540	0.27	87.630	57.06	8.92	1.08	1152.380
##	menu							
## 1	regular							
## 2	regular							
## 3	regular							
## 4	regular							
## 5	regular							
## 6	regular							

7 regular
8 mccafe
9 gourmet
10 gourmet
11 regular
12 mccafe
13 mccafe
14 mccafe
15 condiments
16 mccafe
17 mccafe
18 mccafe
19 mccafe
20 gourmet
21 condiments
22 gourmet
23 gourmet
24 gourmet
25 regular
26 condiments
27 mccafe
28 mccafe
29 gourmet
30 beverage
31 beverage
32 mccafe
33 breakfast
34 regular
35 mccafe
36 breakfast
37 mccafe
38 mccafe
39 mccafe
40 mccafe
41 mccafe
42 regular
43 beverage
44 mccafe
45 mccafe
46 regular
47 mccafe
48 regular
49 regular
50 breakfast
51 breakfast
52 mccafe
53 mccafe
54 mccafe
55 mccafe
56 mccafe
57 regular
58 beverage
59 beverage
60 beverage

61 beverage
62 regular
63 mccafe
64 mccafe
65 mccafe
66 mccafe
67 condiments
68 regular
69 regular
70 regular
71 regular
72 regular
73 gourmet
74 gourmet
75 regular
76 dessert
77 regular
78 dessert
79 beverage
80 beverage
81 regular
82 dessert
83 dessert
84 dessert
85 beverage
86 beverage
87 regular
88 mccafe
89 mccafe
90 condiments
91 mccafe
92 mccafe
93 mccafe
94 mccafe
95 mccafe
96 mccafe
97 mccafe
98 condiments
99 condiments
100 gourmet
101 gourmet
102 regular
103 mccafe
104 mccafe
105 mccafe
106 dessert
107 regular
108 dessert
109 dessert
110 dessert
111 dessert
112 regular
113 breakfast
114 breakfast

```
## 115 beverage
## 116 beverage
## 117 dessert
## 118 beverage
## 119 beverage
## 120 dessert
## 121 breakfast
## 122 regular
## 123 beverage
## 124 mccafe
## 125 mccafe
## 126 mccafe
## 127 mccafe
## 128 condiments
## 129 mccafe
## 130 condiments
## 131 regular
## 132 beverage
## 133 regular
## 134 breakfast
## 135 regular
## 136 mccafe
## 137 regular
## 138 regular
## 139 mccafe
## 140 regular
## 141 regular
```

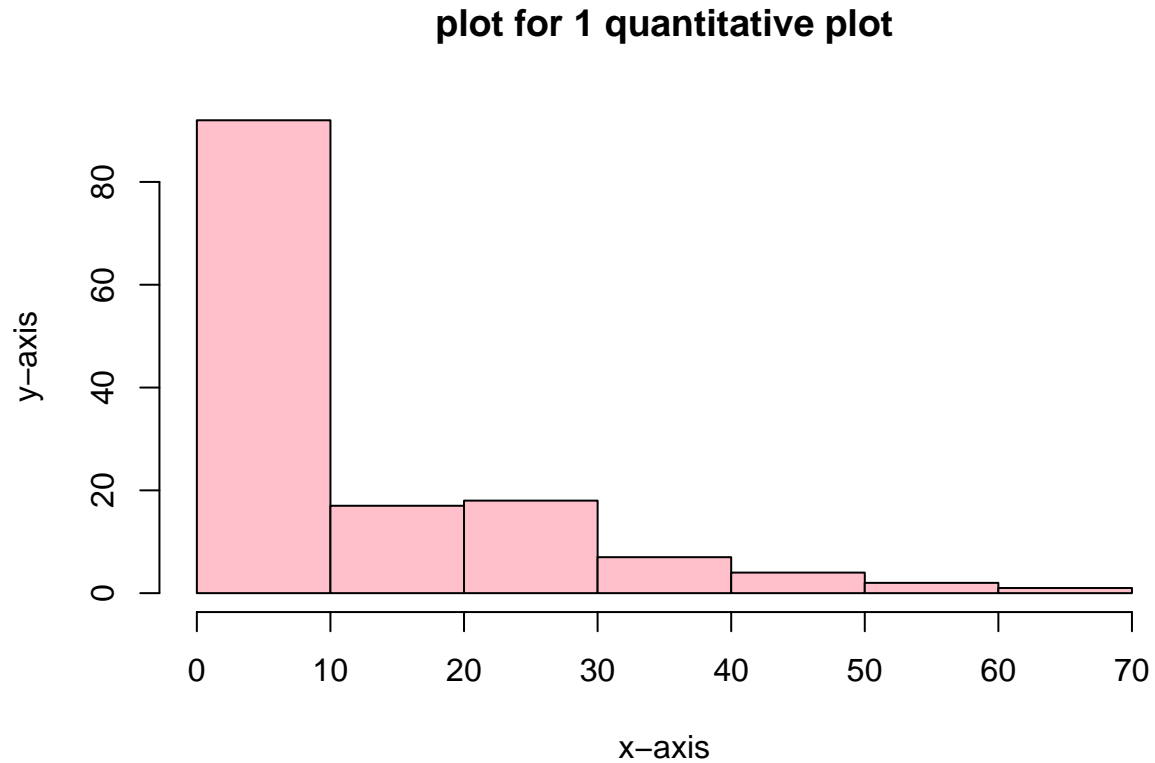
#transforming the carbs variable- using sqrt

```
McDdata_carbs <- sqrt(McDdata$carbs)
print(McDdata_carbs)
```

```
## [1] 7.5193085 2.2956481 7.2339477 7.6987012 7.5471849 9.6871048 6.8088178
## [8] 4.9789557 6.9267597 6.2329768 6.7882251 7.5538070 7.4424458 6.2080593
## [15] 6.9209826 5.5731499 5.7349804 5.5964274 8.8017044 3.5637059 3.2403703
## [22] 3.9673669 4.8600412 1.6370706 2.0049938 0.8544004 5.2038447 6.1919302
## [29] 7.3593478 5.3609701 6.2713635 7.3797019 1.3038405 1.2649111 6.3348244
## [36] 6.3348244 6.2337790 5.3851648 5.6008928 5.3497664 5.3730811 5.3028294
## [43] 8.2468176 3.9534795 1.5968719 2.2068076 1.5968719 2.1377558 2.3021729
## [50] 3.3196385 4.0828911 4.4508426 3.5651087 4.1412558 4.5574115 3.7629775
## [57] 4.3680659 4.7138095 4.7528939 5.6320511 6.3277168 4.7801674 6.0893349
## [64] 6.9577295 7.6439519 5.7480431 6.4257295 0.5291503 0.5744563 0.6782330
## [71] 1.6703293 1.8165902 2.1354157 1.6733201 1.8165902 2.1354157 5.5308227
## [78] 4.9162994 4.9162994 5.6462377 6.7372101 7.8057671 8.5152804 6.6385239
## [85] 6.8381284 6.8007353 6.8673139 5.0179677 5.0556899 5.6320511 5.1000000
## [92] 8.0467385 3.9025633 4.5738387 4.3714986 5.5154329 4.4474712 5.6364883
## [99] 5.9380131 7.4323617 6.5893854 8.8904443 4.3231933 5.7810034 6.1196405
## [106] 7.4993333 8.6168440 8.7195183 6.8000000 6.6030296 6.7823300 6.5795137
## [113] 7.6726788 4.8579831 5.9497899 5.2335456 6.1514226 7.3715670 5.6894639
## [120] 6.6865537 8.0137382 4.9899900 5.8651513 7.0285134 5.4662601 6.4249514
## [127] 7.6993506 4.9537864 5.2668776 5.1127292 0.0000000 0.0000000 2.6907248
## [134] 3.5156792 1.4106736 1.5811388 1.6217275 4.6475800 0.8485281 2.7477263
## [141] 4.2426407
```

```
#plot for one quantitative plot for added sugar
```

```
hist(McDdata$addedsugar, main="plot for 1 quantitative plot", xlab="x-axis", ylab = "y-axis", col = "pink")
```



```
#Scatter plot for cholestrol and protein
```

```
plot(McDdata$cholestrol, McDdata$protien, main="Scatter plot for cholestrol and protein", xlab="x-axis")
```


Scatter plot for cholestrol and protein

