R version 3.5.1 (2018-07-02) -- "Feather Spray"

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Platform: x86\_64-apple-darwin15.6.0 (64-bit)

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Type 'q()' to quit R.

[Workspace loaded from ~/.RData]

> setwd("~/Desktop/untitled folder 2")

> avocado <- read.csv("avocado.csv")

> str(avocado)

'data.frame': 18249 obs. of 14 variables:

$ X : int 0 1 2 3 4 5 6 7 8 9 ...

$ Date : Factor w/ 169 levels "2015-01-04","2015-01-11",..: 52 51 50 49 48 47 46 45 44 43 ...

$ AveragePrice: num 1.33 1.35 0.93 1.08 1.28 1.26 0.99 0.98 1.02 1.07 ...

$ Total.Volume: num 64237 54877 118220 78992 51040 ...

$ X4046 : num 1037 674 795 1132 941 ...

$ X4225 : num 54455 44639 109150 71976 43838 ...

$ X4770 : num 48.2 58.3 130.5 72.6 75.8 ...

$ Total.Bags : num 8697 9506 8145 5811 6184 ...

$ Small.Bags : num 8604 9408 8042 5677 5986 ...

$ Large.Bags : num 93.2 97.5 103.1 133.8 197.7 ...

$ XLarge.Bags : num 0 0 0 0 0 0 0 0 0 0 ...

$ type : Factor w/ 2 levels "conventional",..: 1 1 1 1 1 1 1 1 1 1 ...

$ year : int 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 ...

$ region : Factor w/ 54 levels "Albany","Atlanta",..: 1 1 1 1 1 1 1 1 1 1 ...

> head(avocado)

X Date AveragePrice Total.Volume X4046 X4225 X4770

1 0 2015-12-27 1.33 64236.62 1036.74 54454.85 48.16

2 1 2015-12-20 1.35 54876.98 674.28 44638.81 58.33

3 2 2015-12-13 0.93 118220.22 794.70 109149.67 130.50

4 3 2015-12-06 1.08 78992.15 1132.00 71976.41 72.58

5 4 2015-11-29 1.28 51039.60 941.48 43838.39 75.78

6 5 2015-11-22 1.26 55979.78 1184.27 48067.99 43.61

Total.Bags Small.Bags Large.Bags XLarge.Bags type year

1 8696.87 8603.62 93.25 0 conventional 2015

2 9505.56 9408.07 97.49 0 conventional 2015

3 8145.35 8042.21 103.14 0 conventional 2015

4 5811.16 5677.40 133.76 0 conventional 2015

5 6183.95 5986.26 197.69 0 conventional 2015

6 6683.91 6556.47 127.44 0 conventional 2015

region

1 Albany

2 Albany

3 Albany

4 Albany

5 Albany

6 Albany

> tail(avocado)

X Date AveragePrice Total.Volume X4046 X4225 X4770

18244 6 2018-02-11 1.57 15986.17 1924.28 1368.32 0.00

18245 7 2018-02-04 1.63 17074.83 2046.96 1529.20 0.00

18246 8 2018-01-28 1.71 13888.04 1191.70 3431.50 0.00

18247 9 2018-01-21 1.87 13766.76 1191.92 2452.79 727.94

18248 10 2018-01-14 1.93 16205.22 1527.63 2981.04 727.01

18249 11 2018-01-07 1.62 17489.58 2894.77 2356.13 224.53

Total.Bags Small.Bags Large.Bags XLarge.Bags type year

18244 12693.57 12437.35 256.22 0 organic 2018

18245 13498.67 13066.82 431.85 0 organic 2018

18246 9264.84 8940.04 324.80 0 organic 2018

18247 9394.11 9351.80 42.31 0 organic 2018

18248 10969.54 10919.54 50.00 0 organic 2018

18249 12014.15 11988.14 26.01 0 organic 2018

region

18244 WestTexNewMexico

18245 WestTexNewMexico

18246 WestTexNewMexico

18247 WestTexNewMexico

18248 WestTexNewMexico

18249 WestTexNewMexico

> boro<-avocado$region

> boro<-avocado$AveragePrice

>

> boro<-avocado$AveragePrice,boro

Error: unexpected ',' in "boro<-avocado$AveragePrice,"

> boro<-avocado$type,boro

Error: unexpected ',' in "boro<-avocado$type,"

> boro<-avocado$Date,boro

Error: unexpected ',' in "boro<-avocado$Date,"

> boro<-avocado$Total.Bags.boro

> boro

NULL

> boro<-avocado$region

> boro

[1] Albany Albany Albany

[4] Albany Albany Albany

[7] Albany Albany Albany

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[13] Albany Albany Albany

[16] Albany Albany Albany

[19] Albany Albany Albany

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[1000] Indianapolis

[ reached getOption("max.print") -- omitted 17249 entries ]

54 Levels: Albany Atlanta BaltimoreWashington Boise ... WestTexNewMexico

> Albany<-boro=="Albany"

> Albany

[1] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE

[11] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE

[21] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE

[31] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE

[41] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE

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[981] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE

[991] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE

[ reached getOption("max.print") -- omitted 17249 entries ]

> b=mean(Albany)

> b

[1] 0.01852156

> b\_hat=mean(Albany)

> b\_hat

[1] 0.01852156

> sum(Albany)

[1] 338

> nrow

function (x)

dim(x)[1L]

<bytecode: 0x10715c108>

<environment: namespace:base>

> nrow(avocado)

[1] 18249

> prop.test(sum(Albany),nrow(avocado)p=0.112)

Error: unexpected symbol in "prop.test(sum(Albany),nrow(avocado)p"

> prop.test(sum(Albany),nrow(avocado),p=0.112)

1-sample proportions test with continuity correction

data: sum(Albany) out of nrow(avocado), null probability 0.112

X-squared = 1602.4, df = 1, p-value < 2.2e-16

alternative hypothesis: true p is not equal to 0.112

95 percent confidence interval:

0.01663833 0.02061030

sample estimates:

p

0.01852156