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Assignment #3

m<-read.csv("file:///C:/Users/Owner/Desktop/Doc Program Fall 2018/Stats/hopefully final dataset.csv", stringsAsFactors = F)

> variable.names(m)

[1] "Year"

[2] "Total.correctional.population.a"

[3] "Total.b"

[4] "Probation"

[5] "Parole"

[6] "Total.c"

[7] "Local.jail"

[8] "Total"

[9] "State"

[10] "Federal"

> subsetm<-m[c(1:10),c(2,9,10)]

> str(subsetm)

'data.frame': 10 obs. of 3 variables:

$ Total.correctional.population.a: int 1842100 2002600 2191700 2401400 2662500 2891800 3236100 3462900 3714800 4056200

$ State : int 305500 341800 384100 404900 427700 462300 500600 536800 577700 653200

$ Federal : int 24400 28100 29700 31900 34300 40200 44400 48300 49900 59200

> mean(m$Total.correctional.population.a)

[1] 5376011

> mean(m$State)

[1] 1004038

> mean(m$Federal)

[1] 125256.8

> median(m$Total.correctional.population.a)

[1] 5888100

> median(m$State)

[1] 1184100

> median(m$Federal)

[1] 123000

names(modem[modem==max(modem)])

[1] "1842100" "2002600" "2191700" "2401400" "2662500"

[6] "2891800" "3236100" "3462900" "3714800" "4056200"

[11] "4350300" "4540100" "4735600" "4884100" "5131000"

[16] "5382100" "5531200" "5701100" "5888100" "6349000"

[21] "6467800" "6584900" "6613500" "6730900" "6740300"

[26] "6856900" "6886800" "6899700" "6949800" "6994500"

[31] "6997000" "7055600" "7089000" "7199700" "7239100"

[36] "7312600" "7339600"

names(model[model==max(model)])

[1] "305500" "341800" "384100" "404900" "427700"

[6] "462300" "500600" "536800" "577700" "653200"

[11] "708400" "754000" "802200" "879700" "959700"

[16] "1025600" "1076400" "1127700" "1184100" "1228400"

[21] "1247000" "1248800" "1276600" "1295500" "1316200"

[26] "1316800" "1330100" "1338300" "1351800" "1352600"

[31] "1361100" "1375600" "1382600" "1397200" "1404000"

[36] "1407000" "1407400"

names(mode0[mode0==max(mode0)])

[1] "305500" "341800" "384100" "404900" "427700"

[6] "462300" "500600" "536800" "577700" "653200"

[11] "708400" "754000" "802200" "879700" "959700"

[16] "1025600" "1076400" "1127700" "1184100" "1228400"

[21] "1247000" "1248800" "1276600" "1295500" "1316200"

[26] "1316800" "1330100" "1338300" "1351800" "1352600"

[31] "1361100" "1375600" "1382600" "1397200" "1404000"

[36] "1407000" "1407400"

var(m$Total.correctional.population.a)

[1] 3.208186e+12

> var(m$State)

[1] 149064252417

> var(m$Federal)

[1] 4747759189