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Assignment 2

<https://www.icpsr.umich.edu>

Clicks:

* Find Data
* Search-prisons
* National Prisoner Statistics-1978-2015

Registered membership, opened excel doc and saved as csv.

Variable names:

variable.names(m)

[1] "Year"

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

[3] "Total.b"

[4] "Probation"

[5] "Parole"

[6] "X"

[7] "Total.c"

[8] "Local.jail"

[9] "Total"

[10] "State"

[11] "Federal"

|  |
| --- |
| 'data.frame': 37 obs. of 11 variables:  $ Year : chr "1980" "1981" "1982" "1983" ...  $ Total.correctional.population.a: chr "1,842,100" "2,002,600" "2,191,700" "2,401,400" ...  $ Total.b : chr "1,338,500" "1,445,800" "1,579,200" "1,754,000" ...  $ Probation : chr "1,118,100" "1,222,000" "1,335,400" "1,502,200" ...  $ Parole : chr "220,400" "223,800" "243,900" "251,700" ...  $ X : logi NA NA NA NA NA NA ...  $ Total.c : chr "503,600" "556,800" "612,500" "647,400" ...  $ Local.jail : chr "184,000" "196,800" "209,600" "223,600" ...  $ Total : chr "329,800" "369,900" "413,800" "436,900" ...  $ State : chr "305,500" "341,800" "384,100" "404,900" ...  $ Federal : chr "24,400" "28,100" "29,700" "31,900" ... |
|  |
| |  | | --- | | > | |

Total Correctional Population

Mean: 5376011

Median: 5888100

Mode: 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"

Probation

Mean: 3164676

Median: 3417500

Mode: names(moden[moden==max(moden)])

[1] "1118100" "1222000" "1335400" "1502200" "1711200"

[6] "1870100" "2094400" "2242100" "2356500" "2520500"

[11] "2670200" "2738200" "2806200" "2843400" "2964200"

[16] "3096300" "3180200" "3266700" "3417500" "3673100"

[21] "3772600" "3789800" "3839400" "3868400" "3912900"

[26] "3934500" "3944900" "3973800" "3995000" "4055900"

[31] "4073800" "4140400" "4162300" "4199800" "4236800"

[36] "4271200" "4293000"

Parole

Mean: 634832.4

Median: 705000

Mode: "826100"

Local Jail

Mean: 539743.2

Median: 592500

Mode: [1] "184000" "196800" "209600" "223600" "234500" "256600"

[7] "274400" "295900" "343600" "395600" "405300" "426500"

[13] "444600" "459800" "486500" "507000" "518500" "567100"

[19] "592500" "605900" "621100" "631200" "665500" "691300"

[25] "714000" "727400" "731200" "735600" "740700" "744500"

[31] "744600" "747500" "748700" "765800" "767400" "780200"

[37] "785500"

Federal Prison

Mean: 125256.8

Median: 123000

Mode: [1] "24400" "28100" "29700" "31900" "34300" "40200"

[7] "44400" "48300" "49900" "59200" "65500" "71600"

[13] "80300" "89600" "95000" "100300" "105500" "113000"

[19] "123000" "135200" "145400" "157000" "163500" "173100"

[25] "180300" "187600" "189200" "193000" "196500" "199600"

[31] "201300" "208100" "209800" "210600" "215900" "216400"

[37] "217800"

Variance

|  |
| --- |
| > var(m$Total.correctional.population.a)  [1] 3.208186e+12 |
|  |
| |  | | --- | |  | |

Range

|  |
| --- |
| range(m$Total.correctional.population.a)  [1] 1842100 7339600 |
|  |
| |  | | --- | | > | |

Standard Deviation

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

[1] 1791141

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

The decimal point is 6 digit(s) to the right of the |

1 | 8

2 | 02479

3 | 257

4 | 14579

5 | 14579

6 | 3566779999

7 | 00112233

