Murders

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1.)

```
library(dslabs)
data(murders)

pop= murders$population
sort(pop)[1]
```

```
## [1] 563626
```

2.)

```
index = order(murders$population)
index[1]
```

```
## [1] 51
```

3.)

```
x = which.min(pop)
```

4.)

```
populasi_terkecil = (murders$state[index])[1]
populasi_terkecil
```

```
## [1] "Wyoming"
```

5.)

```
ranks = rank(pop)
my_df = data.frame(nama = murders$state , peringkat = ranks)
my_df
```

```
##                   nama peringkat
## 1              Alabama        29
## 2               Alaska         5
## 3              Arizona        36
```

```
## 4              Arkansas        20
## 5            California        51
## 6              Colorado        30
## 7           Connecticut        23
## 8              Delaware         7
## 9  District of Columbia         2
## 10               Florida        49
## 11               Georgia        44
## 12                Hawaii        12
## 13                 Idaho        13
## 14              Illinois        47
## 15               Indiana        37
## 16                  Iowa        22
## 17                Kansas        19
## 18              Kentucky        26
## 19             Louisiana        27
## 20                 Maine        11
## 21              Maryland        33
## 22         Massachusetts        38
## 23              Michigan        43
## 24             Minnesota        31
## 25           Mississippi        21
## 26              Missouri        34
## 27               Montana         8
## 28              Nebraska        14
## 29                Nevada        17
## 30         New Hampshire        10
## 31            New Jersey        41
## 32            New Mexico        16
## 33              New York        48
## 34        North Carolina        42
## 35          North Dakota         4
## 36                  Ohio        45
## 37              Oklahoma        24
## 38                Oregon        25
## 39          Pennsylvania        46
## 40          Rhode Island         9
## 41        South Carolina        28
## 42          South Dakota         6
## 43             Tennessee        35
## 44                 Texas        50
## 45                  Utah        18
## 46               Vermont         3
## 47              Virginia        40
## 48            Washington        39
## 49         West Virginia        15
## 50             Wisconsin        32
## 51               Wyoming         1
```

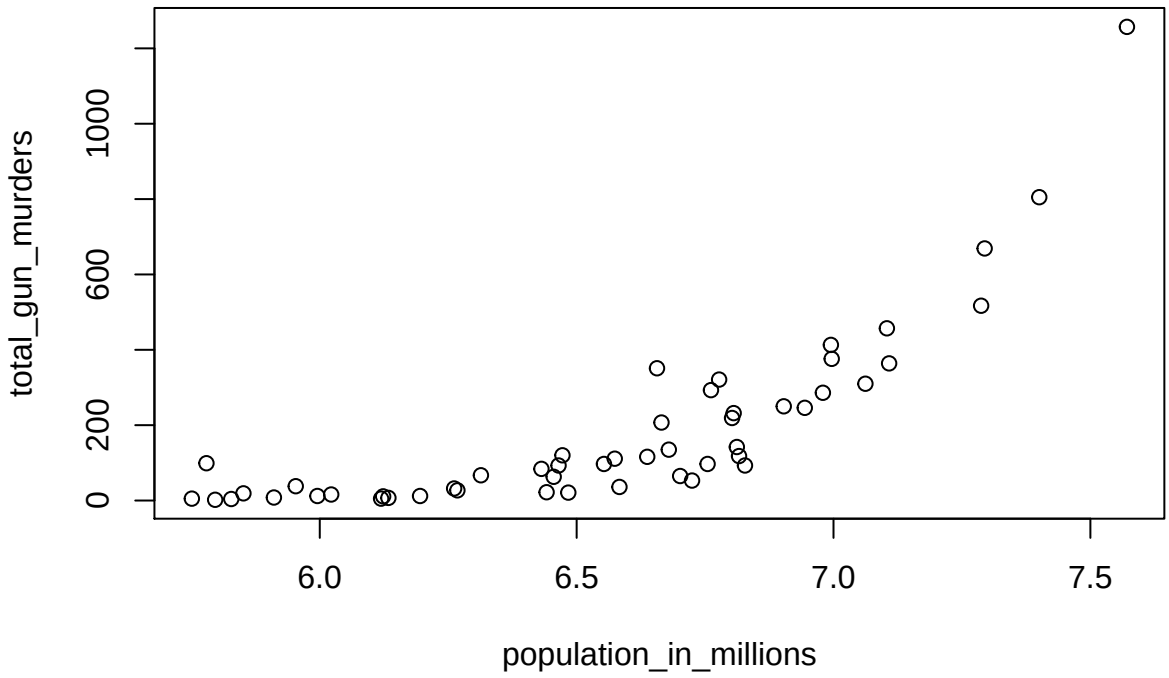
6.)

```
  ind = order(my_df$peringkat)
  my_dff = data.frame(nama = (sort(murders$state))[ind], populasi = sort(murders$population), peringkat
  my_dff
```

```
##                    nama populasi peringkat
## 1               Wyoming   563626         1
## 2  District of Columbia   601723         2
## 3               Vermont   625741         3
## 4          North Dakota   672591         4
## 5                Alaska   710231         5
## 6          South Dakota   814180         6
## 7              Delaware   897934         7
## 8               Montana   989415         8
## 9          Rhode Island  1052567         9
## 10        New Hampshire  1316470        10
## 11                Maine  1328361        11
## 12               Hawaii  1360301        12
## 13                Idaho  1567582        13
## 14             Nebraska  1826341        14
## 15        West Virginia  1852994        15
## 16           New Mexico  2059179        16
## 17               Nevada  2700551        17
## 18                 Utah  2763885        18
## 19               Kansas  2853118        19
## 20             Arkansas  2915918        20
## 21          Mississippi  2967297        21
## 22                 Iowa  3046355        22
## 23          Connecticut  3574097        23
## 24             Oklahoma  3751351        24
## 25               Oregon  3831074        25
## 26             Kentucky  4339367        26
## 27            Louisiana  4533372        27
## 28       South Carolina  4625364        28
## 29              Alabama  4779736        29
## 30             Colorado  5029196        30
## 31            Minnesota  5303925        31
## 32            Wisconsin  5686986        32
## 33             Maryland  5773552        33
## 34             Missouri  5988927        34
## 35            Tennessee  6346105        35
## 36              Arizona  6392017        36
## 37              Indiana  6483802        37
## 38        Massachusetts  6547629        38
## 39           Washington  6724540        39
## 40             Virginia  8001024        40
## 41           New Jersey  8791894        41
## 42       North Carolina  9535483        42
## 43             Michigan  9883640        43
## 44              Georgia  9920000        44
## 45                 Ohio 11536504        45
## 46         Pennsylvania 12702379        46
## 47             Illinois 12830632        47
## 48             New York 19378102        48
## 49              Florida 19687653        49
## 50                Texas 25145561        50
## 51           California 37253956        51
```

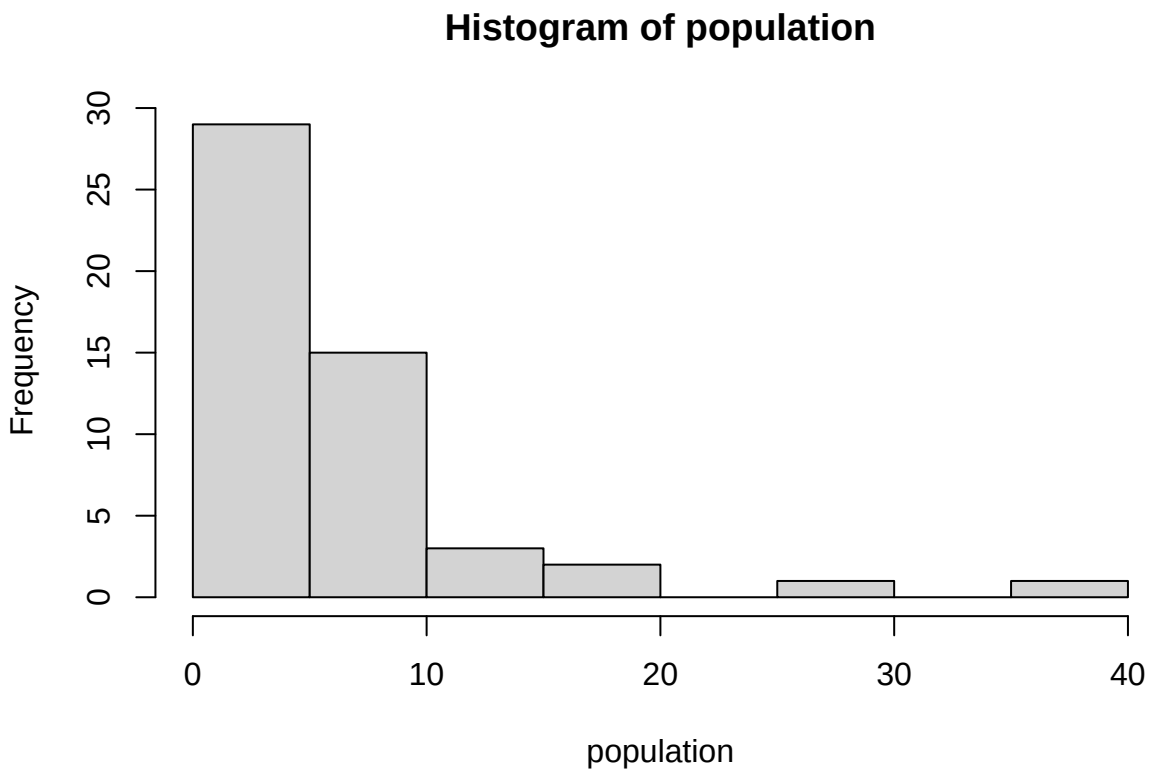
7.)

```r
population_in_millions <- log10(murders$population)
total_gun_murders <- murders$total
plot(population_in_millions, total_gun_murders)
```



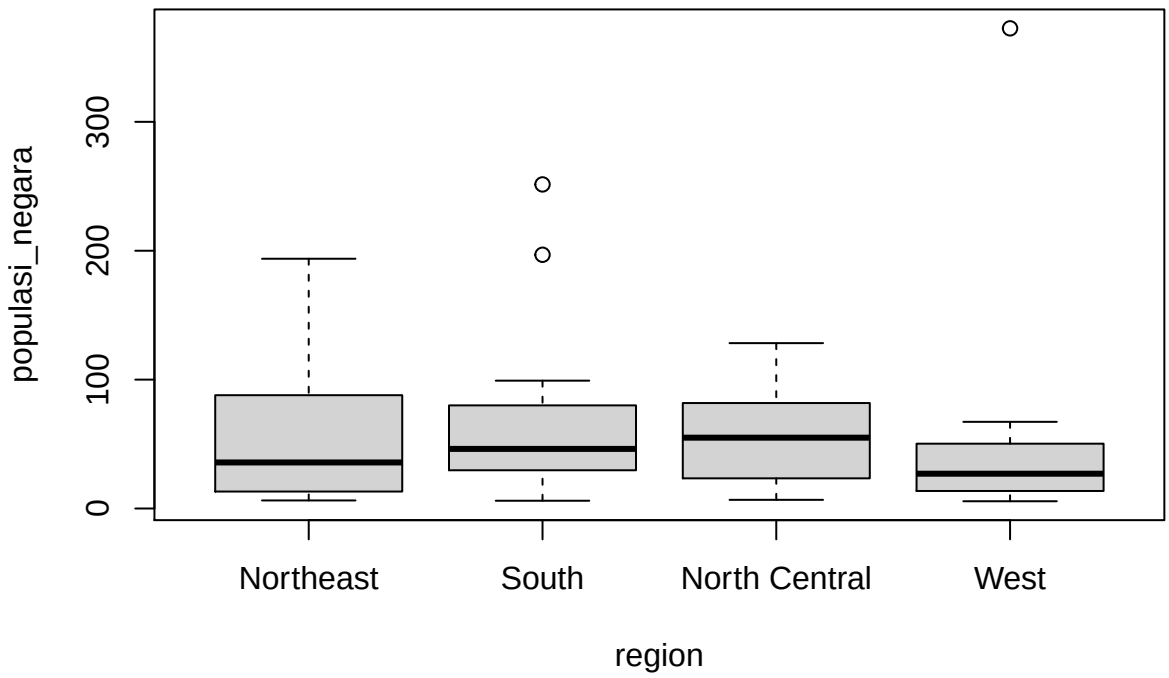
8.)

```r
population = murders$population /1000000
hist(population)
```



9.)

```
populasi_negara=murders$population/10^5
plot(populasi_negara~region,data=murders)
```


populasi_negara
0
100
200
300
Northeast
South
North Central
West
region