Tugas Modul 3

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1. pernyataan yang benar adalah yang c.

```
library(dslabs)
data(murders)
str(murders)

## 'data.frame':    51 obs. of  5 variables:
##  $ state     : chr  "Alabama" "Alaska" "Arizona" "Arkansas" ...
##  $ abb       : chr  "AL" "AK" "AZ" "AR" ...
##  $ region    : Factor w/ 4 levels "Northeast","South",..: 2 4 4 2 4 4 1 2
## 2 2 ...
##  $ population: num  4779736 710231 6392017 2915918 37253956 ...
##  $ total     : num  135 19 232 93 1257 ...
```

2.

```
names(murders)

## [1] "state"      "abb"        "region"     "population" "total"
```

3.

```
a = murders$abb
class(a)

## [1] "character"
```

4.

```
b = murders[[2]]
b == a

##  [1] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE
TRUE
## [16] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE
TRUE
## [31] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE
TRUE
## [46] TRUE TRUE TRUE TRUE TRUE TRUE
```

5.

```
length(levels(murders$region))

## [1] 4
```

6.

```
table(murders$region)

## 
##       Northeast        South North Central            West 
##               9           17             12              13 
```