Lab Exercise #1

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```
#1
#a)
vector <- -5:5
vector
## [1] -5 -4 -3 -2 -1 0 1 2 3 4 5
#b
x < -1:7
## [1] 1 2 3 4 5 6 7
#2
vector \leftarrow seq(1, 3, by = 0.2)
vector
## [1] 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0
ages <- c(34, 28, 22, 36, 27, 18, 52, 39, 42, 29, 35, 31, 27,
22, 37, 34, 19, 20, 57, 49, 50, 37, 46, 25, 17, 37, 43, 53, 41, 51, 35,
24,33, 41, 53, 40, 18, 44, 38, 41, 48, 27, 39, 19, 30, 61, 54, 58, 26,
18)
\#A
ages[3]
## [1] 22
ages[c(2,4)]
## [1] 28 36
ages[-1]
## [1] 28 22 36 27 18 52 39 42 29 35 31 27 22 37 34 19 20 57 49 50 37 46 25 17 37
## [26] 43 53 41 51 35 24 33 41 53 40 18 44 38 41 48 27 39 19 30 61 54 58 26 18
```

```
x <- c("first"=3, "second"=0, "third"=9)</pre>
names(x)
## [1] "first" "second" "third"
## first second third
       3
             0
x[c("first", "third")]
## first third
##
      3
#5
x < -3:2
x[2] <- 0
## [1] -3 0 -1 0 1 2
#6
month <- c("Jan", "Feb", "March", "Apr", "May", "June")</pre>
price_per_liter_php <- c(52.50, 57.25, 60.00, 65.00, 74.25, 54.00)</pre>
purchase_quantity_liters <- c(25, 30, 40, 50, 10, 45)</pre>
fuel_purchase <- data.frame(</pre>
Month = month,
Price_per_Liter_PHP = price_per_liter_php,
Purchase_Quantity_Liters = purchase_quantity_liters
fuel_purchase
     Month Price_per_Liter_PHP Purchase_Quantity_Liters
## 1 Jan
                         52.50
## 2
       Feb
                         57.25
                                                      30
## 3 March
                         60.00
                                                      40
## 4 Apr
                         65.00
                                                      50
                         74.25
## 5 May
                                                      10
## 6 June
                        54.00
                                                      45
```