

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
x
```

```
## [1] 1 2 3 4 5 6 7
```

```
#2
vector <- seq(from=1, to=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
```

```
#3
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, 4)
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
```

```
#4
x <- c("first"=3, "second"=0, "third"=9)
x[c("first", "third")]
```

```
## first third
##      3      9
```

```
x
```

```
## first second third
##      3      0      9
```

```
#5
```

```
x <- -3:2
x
```

```
## [1] -3 -2 -1  0  1  2
```

```
x[2] <- 0
x
```

```
## [1] -3  0 -1  0  1  2
```

```
#6
```

```
month <- c("Jan", "Feb", "March", "Apr", "May", "June")
price_per_liter <- c(52.50, 57.25, 60.00, 65.00, 74.25, 54.00)
purchase_quantity <- c(25, 30, 40, 50, 10, 45)
```

```
#a
```

```
diesel_purchase <- data.frame(
  Month = month,
  Price_per_liter Php = price_per_liter,
  Purchase_quantity Liters = purchase_quantity
)
```

```
diesel_purchase
```

```
##   Month Price_per_liter Php Purchase_quantity Liters
## 1   Jan           52.50                25
## 2   Feb           57.25                30
## 3 March           60.00                40
## 4   Apr           65.00                50
## 5   May           74.25                10
## 6  June           54.00                45
```