RWorksheet_Nava#3a

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USING VECTORS

```
LETTERS <- c ("A", "B", "C", "D" ,"E" ,"F", "G", "H", "I", "J", "K", "L", "M", "N", "O", "P", "Q", "R",
```

```
letters <- c ("a", "b", "c", "d", "e", "f", "g", "h", "i", "j", "k", "l", "m", "n", "o", "p", "q", "r",
```

1.

a.

```
first_eleven <- head(LETTERS, 11)
first_eleven
```

```
##  [1] "A" "B" "C" "D" "E" "F" "G" "H" "I" "J" "K"
```

b.

```
odd_numberedL <- LETTERS[seq(1,26, by=2)]
odd_numberedL
```

```
##  [1] "A" "C" "E" "G" "I" "K" "M" "O" "Q" "S" "U" "W" "Y"
```

c.

```
vowels <- LETTERS[LETTERS %in% c("A","E","I","O","U")]
vowels
```

```
## [1] "A" "E" "I" "O" "U"
```

d.

```
lowercase <- tail(letters, 5)
lowercase
```

```
## [1] "v" "w" "x" "y" "z"
```

e.

```
lcase_1524 <- letters[15:24]
lcase_1524
```

```
##  [1] "o" "p" "q" "r" "s" "t" "u" "v" "w" "x"
```

2.

a.

```
city <- c("Tuguegarao City", "Manila", "Iloilo City", "Tacloban", "Samal Island", "Davao City")
city
```

```
## [1] "Tuguegarao City" "Manila"          "Iloilo City"     "Tacloban"
## [5] "Samal Island"    "Davao City"
```

b.

```r
temp <- c("42","39","34","34","30", "27")
temp
```

```
## [1] "42" "39" "34" "34" "30" "27"
```

c.

```r
city_temp <- data.frame(city, temp)
city_temp
```

```
##               city temp
## 1 Tuguegarao City   42
## 2          Manila   39
## 3     Iloilo City   34
## 4        Tacloban   34
## 5     Samal Island   30
## 6      Davao City   27
```

d.

```r
names(city_temp) <-c("City", "Temperature")
city_temp
```

```
##              City Temperature
## 1 Tuguegarao City          42
## 2          Manila          39
## 3     Iloilo City          34
## 4        Tacloban          34
## 5     Samal Island          30
## 6      Davao City          27
```

e.

```r
str(city_temp)
```

```
## 'data.frame':    6 obs. of  2 variables:
##  $ City       : chr  "Tuguegarao City" "Manila" "Iloilo City" "Tacloban" ...
##  $ Temperature: chr  "42" "39" "34" "34" ...
```

f.

```r
city_temp[3:4,]
```

```
##          City Temperature
## 3 Iloilo City          34
## 4    Tacloban          34
```

g.

```r
highest_temp <- max(city_temp$Temperature)
highest_temp
```

```
## [1] "42"
```

```r
lowest_temp <- min(city_temp$Temperature)
lowest_temp
```

```
## [1] "27"
```