

RWorksheet_Siatan#3a

Floreda Mae Siatan

2022-10-22

```
first <- LETTERS [1:11]
first
```

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

```
odd_nums <- LETTERS[seq (1,26,2)]
odd_nums
```

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

```
vowels <- LETTERS [c (1, 5, 9, 15, 21)]
vowels
```

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

```
lower <- letters
lower [22:26]
```

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

```
let <- letters [16:23]
let
```

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

```
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"
```

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

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

```
city_temp <- cbind (c("Tuguegarao City", "Manila", "Iloilo City", "Tacloban", "Samal Island", "Davao City"),
                    c(42, 39, 34, 34, 30, 27))
city_temp
```

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

```
colnames(city_temp) <-c ("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"
```

```
city_temp [5]
```

```
## [1] "Samal Island"
```

```
city_temp [6]
```

```
## [1] "Davao City"
```

```
num_m <- matrix (c(1:8, 11:14), nrow=3, ncol=4)
num_m
```

```
##      [,1] [,2] [,3] [,4]
## [1,]    1    4    7   12
## [2,]    2    5    8   13
## [3,]    3    6   11   14
```

```
mul <- matrix(c(1:8, 11:14), nrow = 3, ncol = 4)
mul <- mul*2
mul
```

```
##      [,1] [,2] [,3] [,4]
## [1,]    2    8   14   24
## [2,]    4   10   16   26
## [3,]    6   12   22   28
```

```

mul[2,]

## [1] 4 10 16 26

mul[1, 3]

## [1] 14

mul [2,4]

## [1] 26

mul [3,2]

## [1] 12

mul [3,3]

## [1] 22

mul[,4]

## [1] 24 26 28

dimnames(mul) <- list(c("isa", "dalawa", "tatlo"),
                      c("uno", "dos", "tres", "quatro"))
mul

##          uno dos tres quatro
## isa      2  8  14   24
## dalawa   4 10  16   26
## tatlo    6 12  22   28

dim(num_m) <- c(6, 2)
num_m

##      [,1] [,2]
## [1,]    1    7
## [2,]    2    8
## [3,]    3   11
## [4,]    4   12
## [5,]    5   13
## [6,]    6   14

num <- c(1, 2, 3, 6, 7, 8, 9, 0, 3, 4, 5, 1)

num_array <- array(rep(num, 2), dim = c(2,4,3))
num_array

```

```
## , , 1
##
##      [,1] [,2] [,3] [,4]
## [1,]    1    3    7    9
## [2,]    2    6    8    0
##
## , , 2
##
##      [,1] [,2] [,3] [,4]
## [1,]    3    5    1    3
## [2,]    4    1    2    6
##
## , , 3
##
##      [,1] [,2] [,3] [,4]
## [1,]    7    9    3    5
## [2,]    8    0    4    1
```

3

```
## [1] 3
```