

## HW-3.R

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```
#MZZ  
#18/02/2022  
#Tarea 3
```

```
# Tarea 3 -----
```

```
Xi <- c(6, 4, 1, 3)  
Xy <- c(1, 3, 4, 2)
```

```
sum(Xi)
```

```
## [1] 14
```

```
sum(Xy)
```

```
## [1] 10
```

```
prod(Xi)
```

```
## [1] 72
```

```
prod(Xy)
```

```
## [1] 24
```

```
sum(Xi, Xy)
```

```
## [1] 24
```

```
prod(Xi, Xy)
```

```
## [1] 1728
```

```
prod(Xi^2, Xy^.5)
```

```
## [1] 25396.31
```

```
# Problema 2 -----
```

```
grupoa <- c(80, 90, 90, 100)
```

```
grupob <- c(60, 65, 65, 70, 70, 70, 75, 75, 80, 80, 80, 80, 80, 85, 100)
```

*#a- El grupo b tiene un altura mayor ya que son mas numeros y hacen un  
#resultado mucho mas grande*

*#b*

```
mean(grupoa)
```

```
## [1] 90
```

```
mean(grupob)
```

```
## [1] 75.66667
```

*# Problema 3 -----*

```
promedio <- c(87, 72, 85, 76)
```

```
mean(promedio)
```

```
## [1] 80
```

*# Problema 4 -----*

*#es la b hay un total de 110 niños en la ciudad*

```
promedio2 <- 110/ 50
```

*# Problema 5 -----*

```
germinaciones <- c(5, 6, 7, 8, 9)
```

```
petri <- c(1, 3, 5, 3, 1)
```

*#a- La grafica que usario yo seria una grafica de baras*

*#b*

```
Conjunto <- c(5, 6, 7, 8, 9, 1, 3, 5, 3, 1)
```

```
mean(Conjunto)
```

```
## [1] 4.8
```

```
median(germinaciones, petri, na.rm = TRUE)
```

```
## [1] 7
```

*# Problema 6 -----*

```
set <- c(2, 2, 3, 6, 10)
```

*#a*

```
mean(set)
```

```
## [1] 4.6
```

```
median(set)
```

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

```

mode <-function(set)
{return(as.numeric(names(which.max(table(set)))))}
mode(set)

## [1] 2

#b
set1 <- c(2+5, 2+5, 3+5, 6+5, 10+5)
mean(set1)

## [1] 9.6

median(set1)

## [1] 8

mode(set1)

## [1] 7

#C- Los reultados van aumentando

#d
set2 <- c(2*5, 2*5, 3*5, 6*5, 10*5)
mean(set2)

## [1] 23

median(set2)

## [1] 15

mode(set2)

## [1] 10

#e- van aumentando

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

numeros1 <- c(8, 9, 7, 5, 6)
median(numeros1)

## [1] 7

mean(numeros1)

## [1] 7

numeros2 <- c(9, 9, 7, 7, 3 )

median(numeros2)

## [1] 7

```

```
mean(numeros2)
## [1] 7

#b
numeros3 <- c(2, 5, 7, 9, 8)
median(numeros3)
## [1] 7

mean(numeros3)
## [1] 6.2

numeros4 <- c(4, 3, 8, 9, 7)
median(numeros4)
## [1] 7

mean(numeros4)
## [1] 6.2
```