Tarea-3.R

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



# Tarea 1 ------------------------------------------------------------------

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)
```

```r
#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
```

```r
mean(grupob)
```

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

```r
# Problema 3 ----------------------------------------------------------------

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

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

```r
# 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
```

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

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

```r
# Problema 6 ----------------------------------------------------------------

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

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

```r
median(set)
```

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

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

```
## [1] 2
```

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

```
## [1] 9.6
```

```r
median(set1)
```

```
## [1] 8
```

```r
mode(set1)
```

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

```r
#C- los reultados van aumentando

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

```
## [1] 23
```

```r
median(set2)
```

```
## [1] 15
```

```r
mode(set2)
```

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

```r
#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
```

```r
mean(numeros1)
```

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

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

median(numeros2)
```

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

```r
mean(numeros2)
```

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

```r
#b
numeros3 <- c(2, 5, 7, 9, 8)
median(numeros3)
```

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

```r
mean(numeros3)
```

```
## [1] 6.2
```

```r
numeros4 <- c(4, 3, 8, 9, 7)
median(numeros4)
```

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

```r
mean(numeros4)
```

```
## [1] 6.2
```