ANEXO 1

```
Script R

# BLOQUE TRANSVERSAL

#====================================================================================
```

 # Leemos el archivo excel con los datos

```
library(readxl)

path <- 'C:/Users/eteix/Desktop/'

data <- data.frame(read_excel(paste0(path, 'DadesR.xlsx')))
```

 # Visualizamos la tabla

```
View(data)
```

 # Creamos subtablas separadas por procesador

```
Ryzen5 <- subset(data, Procesador == "AMD Ryzen 5 5600X 3.7GHz")

Ryzen7 <- subset(data, Procesador == "AMD Ryzen 7 5800X 3.8GHz")
```

 # Descriptiva variables continuas

```
# Ryzen 5

        summary(Ryzen5$Score)
```

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
7611	7842	8005	7957	8064	8212

```
        var(Ryzen5$Score) 24790.23

        sd(Ryzen5$Score) 157.4491

        hist(Ryzen5$Score)

        boxplot(Ryzen5$Score)


# Ryzen 5/Benchmark

        #Cine Bench

        summary(Ryzen5$Cine)
```

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
9899	10308	10862	10680	11009	11250

```
        var(Ryzen5$Cine) 183091.1

        sd(Ryzen5$Cine) 427.8914

        hist(Ryzen5$Cine)

        boxplot(Ryzen5$Cine)


        #Geek Bench

        summary(Ryzen5$Geek)
```

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
7799	8126	8454	8355	8548	8806

```
var(Ryzen5$Geek) 84628.69

sd(Ryzen5$Geek) 290.9101

hist(Ryzen5$Geek)

boxplot(Ryzen5$Geek)


#CPU.Z Bench

summary(Ryzen5$CPU.Z)
```

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
4332	4643	4780	4836	4998	5521

```
var(Ryzen5$CPU.Z) 69829.96

sd(Ryzen5$CPU.Z) 264.2536

hist(Ryzen5$CPU.Z)

boxplot(Ryzen5$CPU.Z)
```

#Ryzen 7

```
summary(Ryzen7$Score)
```

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
10396	11031	11165	11187	11380	11830

```
var(Ryzen7$Score) 104556.4

sd(Ryzen7$Score) 323.3518

hist(Ryzen7$Score)

boxplot(Ryzen$Score)
```

#Ryzen 7/Benchmark

```
#Cine Bench

summary(Ryzen7$Cine)
```

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
13254	14846	15240	15020	15347	15789

```
var(Ryzen7$Cine) 370791.8

sd(Ryzen7$Cine) 608.9268

hist(Ryzen7$Cine)

boxplot(Ryzen7$Cine)


#Geek Bench

summary(Ryzen7$Geek)
```

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
10633	11288	11461	11658	12115	12986

```
var(Ryzen7$Geek) 388843

sd(Ryzen7$Geek) 623.5728

hist(Ryzen7$Geek)
```

```
boxplot(Ryzen7$Geek)


#CPU.Z Bench

summary(Ryzen7$CPU.Z)
```

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
6154	6510	6663	6884	7132	8354

```
var(Ryzen7$CPU.Z) 307002.4

sd(Ryzen7$CPU.Z) 554.0779

hist(Ryzen7$CPU.Z)

boxplot(Ryzen7$CPU.Z)
```

#Comprovacio de la "Normalitat" de les mostres

```
#Ryzen 5
        par(mfrow=c(,))
hist(Ryzen5$Score)
qqnorm(Ryzen5$Score)
qqline(Ryzen5$Score)


#Ryzen 7
        par(mfrow=c(2,1))
hist(Ryzen7$Score)
qqnorm(Ryzen7$Score)
qqline(Ryzen7$Score)


#Test "Normalidad"
>Shapiro.test(Ryzen5$Score) w = 0.94864, p-value = 0.1831
>Shapiro.test(Ryzen7$Score) w = 0.96546, p-value = 0.4655
```

#OBJECTIU 1

```
#Ryzen 7 mejor que Ryzen 5?
        d1 = Ryzen7$Score – Ryzen5$Score

        T = mean(d1)/(sd(d1)/sqrt(length(d1)))

        Pvalue = 2*(1-pnorm(t,0,1))

        t.test(Ryzen7$Score, Ryzen5$Score, paired = "TRUE")
```

#OBJECTIU 2

```
#El benckmark afecta en las puntuaciones obtenidas?
        par(mfrow = c(1,1))
boxplot(Ryzen5$Cine, Ryzen5$Geek)
cor(Ryzen5$Cine, Ryzen5$Geek) -0.3095971
```

```
boxplot(Ryzen5$Geek, Ryzen5$CPU.Z)
cor(Ryzen5$Geek, Ryzen5$CPU.Z) -0.4711345


boxplot(Ryzen5$Cine, Ryzen5$CPU.Z)
cor(Ryzen5$Cine, Ryzen5$CPU.Z) 0.1550976


boxplot(Ryzen7$Cine, Ryzen7$Geek)
cor(Ryzen7$Cine, Ryzen7$Geek) -0.3095971


boxplot(Ryzen7$Geek, Ryzen7$CPU.Z)
cor(Ryzen7$Geek, Ryzen7$CPU.Z) -0.4711345


boxplot(Ryzen5$Cine, Ryzen5$CPU.Z)
cor(Ryzen5$Cine, Ryzen5$CPU.Z) 0.1550976
```