Examen-Final.R

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```
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## Examen final

# Importar datos de internet
ur1 <- "https://stat.ethx.ch/R-
devel/library/datasets/html/InsectSprays.html"

data("InsectSprays")
head(InsectSprays)
```
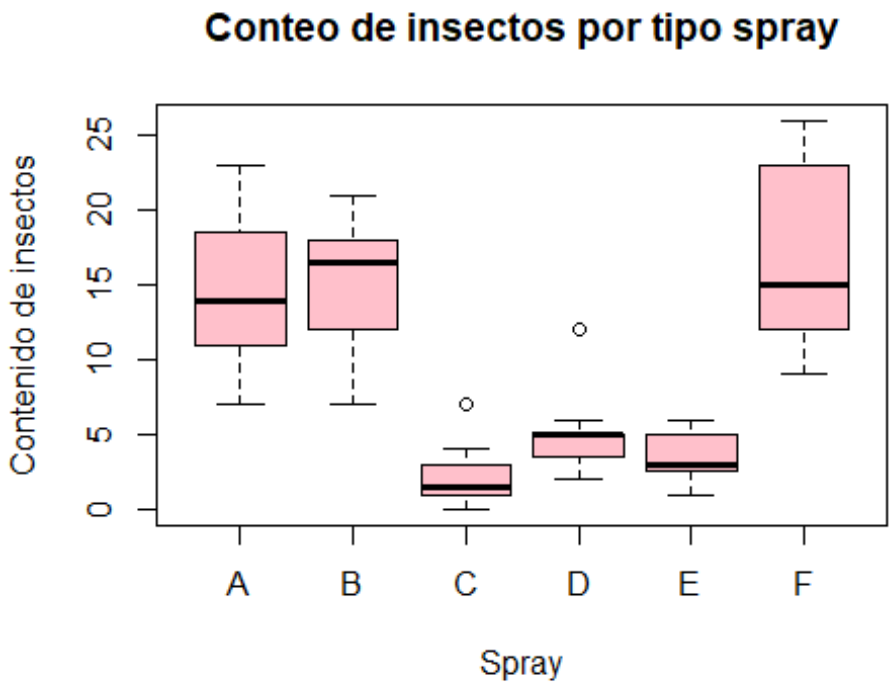

```
##   count spray
## 1    10     A
## 2     7     A
## 3    20     A
## 4    14     A
## 5    14     A
## 6    12     A
```

```
tapply(InsectSprays$count, InsectSprays$spray, length)
```

```
##  A  B  C  D  E  F
## 12 12 12 12 12 12
```

```
boxplot(InsectSprays$count ~ InsectSprays$spray,
        main = "Conteo de insectos por tipo spray",
        col = "pink",
        xlab = "Spray",
        ylab = "Contenido de insectos")
```




```
tapply(InsectSprays$count, InsectSprays$spray, mean )

##         A         B         C         D         E         F
## 14.500000 15.333333  2.083333  4.916667  3.500000 16.666667

tapply(InsectSprays$count, InsectSprays$spray, var)

##         A         B         C         D         E         F
## 22.272727 18.242424  3.901515  6.265152  3.000000 38.606061

shapiro.test(InsectSprays$count)

##
##  Shapiro-Wilk normality test
##
## data:  InsectSprays$count
## W = 0.9216, p-value = 0.0002525

bartlett.test(count ~ spray, data = InsectSprays)

##
##  Bartlett test of homogeneity of variances
##
## data:  count by spray
## Bartlett's K-squared = 25.96, df = 5, p-value = 9.085e-05
```