Segundo-Examen_11Nov.R

Usuario1

2024-11-11

```
#11/11/2024
#2do Examen
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#codigos pregunta 15 y 16
set.seed(42)
n <- 30
altura <- rnorm(n, mean = 170, sd = 10)
peso<- 0.5 * altura + rnorm(n, mean = 0, sd = 5)

t.test(altura, peso)

##
##  Welch Two Sample t-test
##
## data:  altura and peso
## t = 32.409, df = 46.663, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  80.61611 91.28884
## sample estimates:
## mean of x mean of y
## 170.68587  84.73339

cor.test(altura, peso)

##
##  Pearson's product-moment correlation
##
## data:  altura and peso
## t = 5.3576, df = 28, p-value = 1.044e-05
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.4722623 0.8530828
## sample estimates:
##       cor
## 0.7114793
```