```
install.packages("MASS")
library(MASS)

names(Boston)

modelo <- lm(medv ~ crim + indus + rm + age, data = Boston)

summary(modelo)

nuevos_datos <- data.frame(
  crim = 70,
  indus = mean(Boston$indus),
  rm = mean(Boston$rm),
  age = mean(Boston$age)
)

predict(modelo, nuevos_datos)

nuevos_datos$rm <- 8
predict(modelo, nuevos_datos)

crim_vals <- seq(0, 100, by = 10)

sim_data <- data.frame(
  crim = crim_vals,
  indus = mean(Boston$indus),
  rm = mean(Boston$rm),
  age = mean(Boston$age)
)
```

```
predicciones <- predict(modelo, sim_data)


plot(crim_vals, predicciones, type = "b", col = "red",
    main = "Efecto de crim sobre medv",
    xlab = "Tasa de criminalidad (crim)", ylab = "Valor de la vivienda (medv)")
```