```
#Read the data file and save the results
csdata <- read.csv("testscores_california_1999.csv")

#We are interested in the relationship between
# testscr: the average reading/math score in grade 5
# str: student to teach ratio
csreduced <- subset(csdata,select=c("testscr","str"))

#Now ask for the summary of the reduced data
summary(csreduced)
```

```
##     testscr         str
##  Min.   :606   Min.   :14.0
##  1st Qu.:640   1st Qu.:18.6
##  Median :654   Median :19.7
##  Mean   :654   Mean   :19.6
##  3rd Qu.:667   3rd Qu.:20.9
##  Max.   :707   Max.   :25.8
```

```
#Fit the LS regression line
starLM <- lm(testscr~str,data=csreduced)
#Display the results
sum.results <- summary(starLM)
sum.results
```

```
##
## Call:
## lm(formula = testscr ~ str, data = csreduced)
##
## Residuals:
##    Min     1Q Median     3Q    Max
## -47.73 -14.25   0.48  12.82  48.54
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept)   698.93       9.47   73.82  < 2e-16 ***
## str            -2.28       0.48   -4.75  2.8e-06 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 18.6 on 418 degrees of freedom
## Multiple R-squared:  0.0512, Adjusted R-squared:  0.049
## F-statistic: 22.6 on 1 and 418 DF,  p-value: 2.78e-06
```