## STATS 205: Homework Assignment 6

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## Solution to Problem 1

```
library(datasets)
data(cars)
head(cars)
##
     speed dist
## 1
## 2
             10
## 3
         7
              4
         7
             22
## 4
## 5
         8
             16
         9
## 6
             10
cars.supsmu = supsmu(cars$speed, cars$dist, bass = 0, span = "cv")
cars.supsmu2= supsmu(cars$speed, cars$dist, bass = 0, span = .30)
cars.supsmu3= supsmu(cars$speed, cars$dist, bass = 0, span = .05)
plot(x = cars$speed, y = cars$dist, main = "Stopping distances for various speeds", xlab = "Speed", yla
lines(x = cars.supsmu$x, y = cars.supsmu$y, col = "green")
legend(5, 110, legend=c("Super Smoothed Cars Data with 'cv' span"),
col=c("green"), lty=1:1, cex=0.8)
```

## Stopping distances for various speeds

