## STATS 205: Homework Assignment 6

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## Solution to Problem 1

```
library(datasets)
data(cars)
head(cars)
##
                 speed dist
## 1
                            4
## 2
                                4 10
                            7
                                           4
## 3
## 4
                           7 22
## 5
                            8 16
## 6
                               9 10
cars.supsmu = supsmu(cars$speed, cars$dist, bass = 0, span = "cv")
cars.supsmu2= supsmu(cars$speed, cars$dist, bass = 0, span = )
# library(ggplot2)
\# qplot(x = cars.supsmu\$x, y = cars.supsmu\$y)
\#\ plot(x = cars.supsmu\$x,\ y = cars.supsmu\$y,\ type = "l",\ col = "red",\ main = "Stopping\ distances\ for\ value" and the plot of the 
\# lines(x = cars$speed, y = cars$dist, col = "green")
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, 90, legend=c("Super Smoothed Cars Data with 'cv' span"),
   col=c("green"), lty=1:1, cex=0.8)
```

## Stopping distances for various speeds

