STATS 205: Homework Assignment 6

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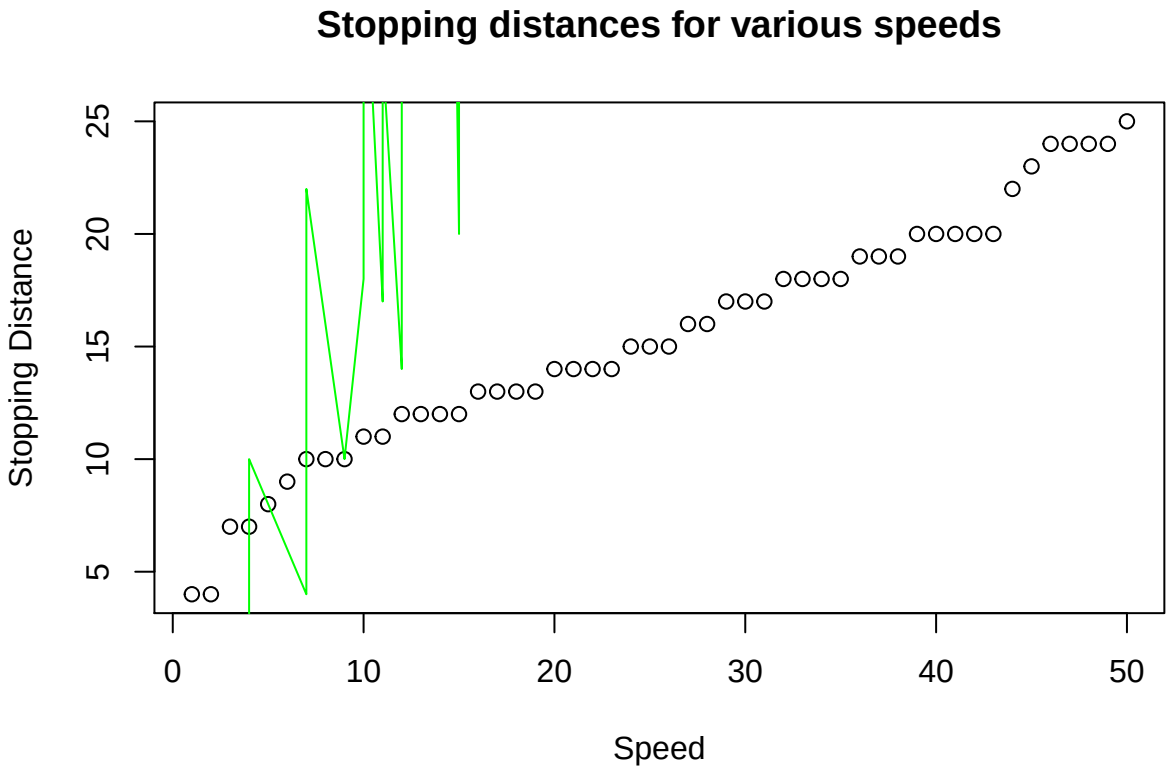
Solution to Problem 1

```
library(datasets)
data(cars)
head(cars)
```

```
##   speed dist
## 1     4    2
## 2     4   10
## 3     7    4
## 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 va
# lines(x = cars$speed, y = cars$dist, col = "green")
plot(x = cars$speed, y = cars.supsmu$dist, main = "Stopping distances for various speeds", xlab = "Spee
lines(x = cars$speed, y = cars$dist, col = "green")
legend(5, 90, legend=c("Super Smoothed Cars Data with 'cv' span"),
 col=c("red"), lty=1:1, cex=0.8)
```


Stopping distances for various speeds
Stopping Distance
Speed
5
10
15
20
25
0
10
20
30
40
50