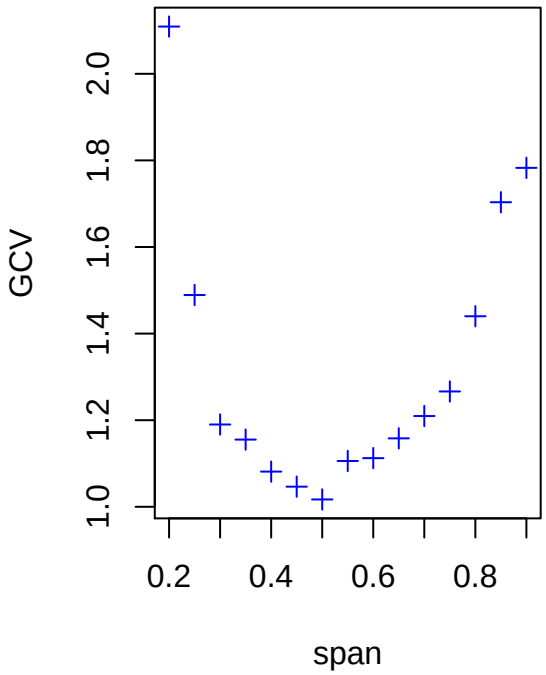
CS598 - Coding Assignment 3 (Bonus)

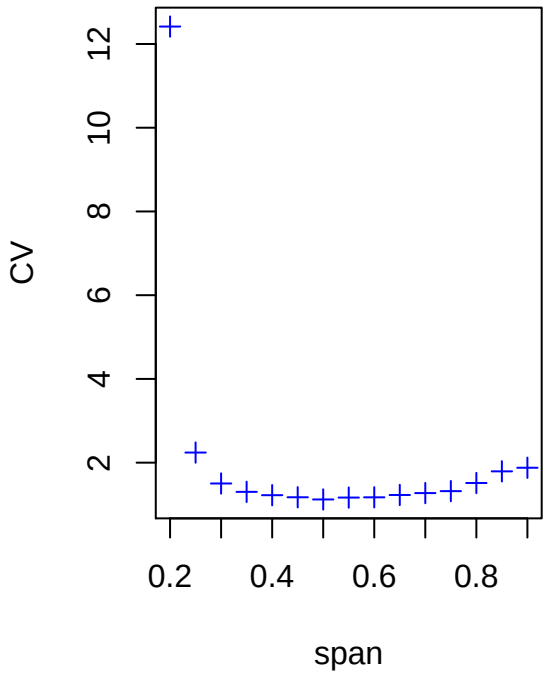
Xiaoming Ji

```
mydata = read.csv(file = "Coding3_Bonus_Data.csv")

span1 = seq(from = 0.2, by = 0.05, length = 15 )
cv.out = myCV(mydata$x, mydata$y, span1)
cbind(CV=cv.out$cv, GCV=cv.out$gcv)
```

```
##               CV      GCV
##  [1,] 12.416167 2.109088
##  [2,]  2.241351 1.489063
##  [3,]  1.502957 1.190075
##  [4,]  1.302611 1.155223
##  [5,]  1.223215 1.081272
##  [6,]  1.173550 1.046493
##  [7,]  1.121463 1.016964
##  [8,]  1.166369 1.105829
##  [9,]  1.172145 1.112322
## [10,]  1.228412 1.158067
## [11,]  1.273253 1.209565
## [12,]  1.319765 1.266375
## [13,]  1.514219 1.440057
## [14,]  1.792494 1.703384
## [15,]  1.878643 1.782755
```






```
span1[which.min(cv.out$gcv)]
```

```
## [1] 0.5
```

```
span1[which.min(cv.out$cv)]
```

```
## [1] 0.5
```

Both achieve their minimals at 0.5.