

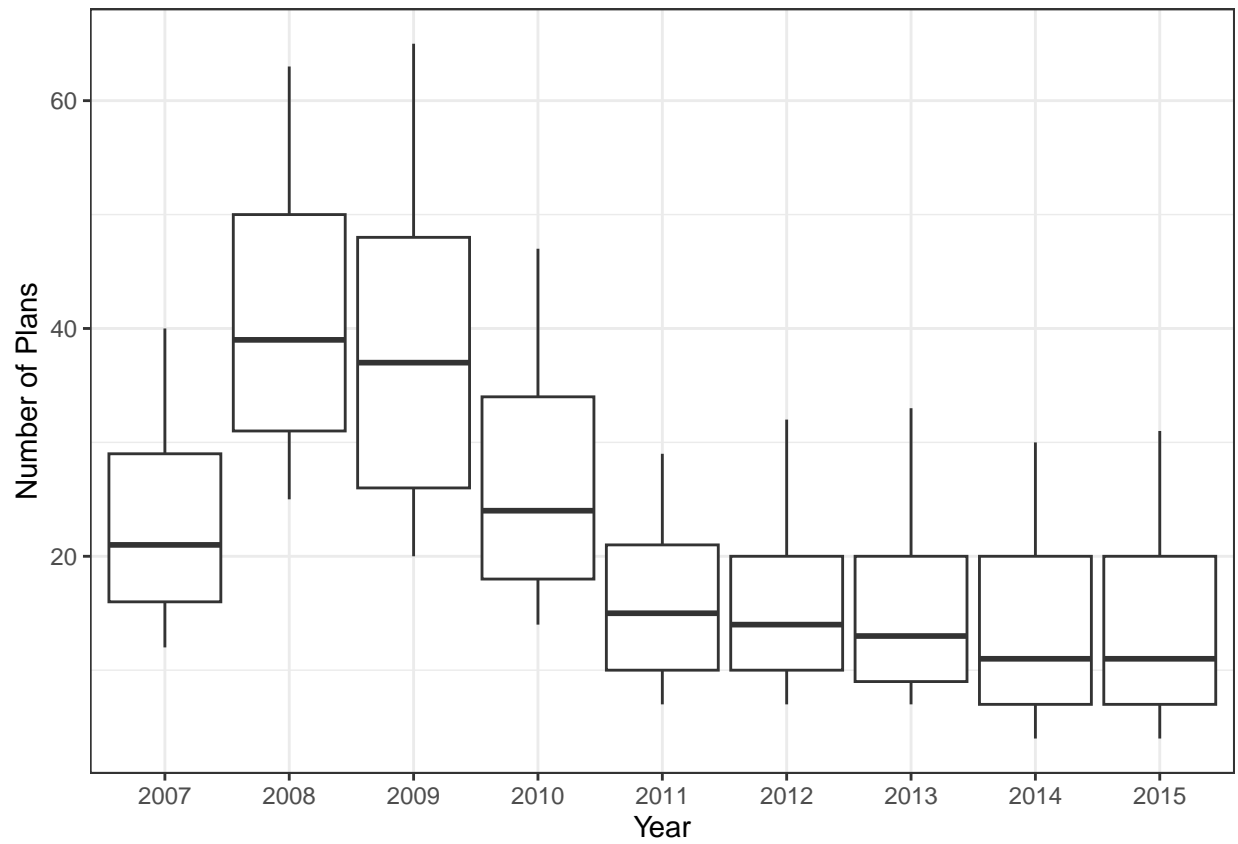
Homework 4

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Question 1

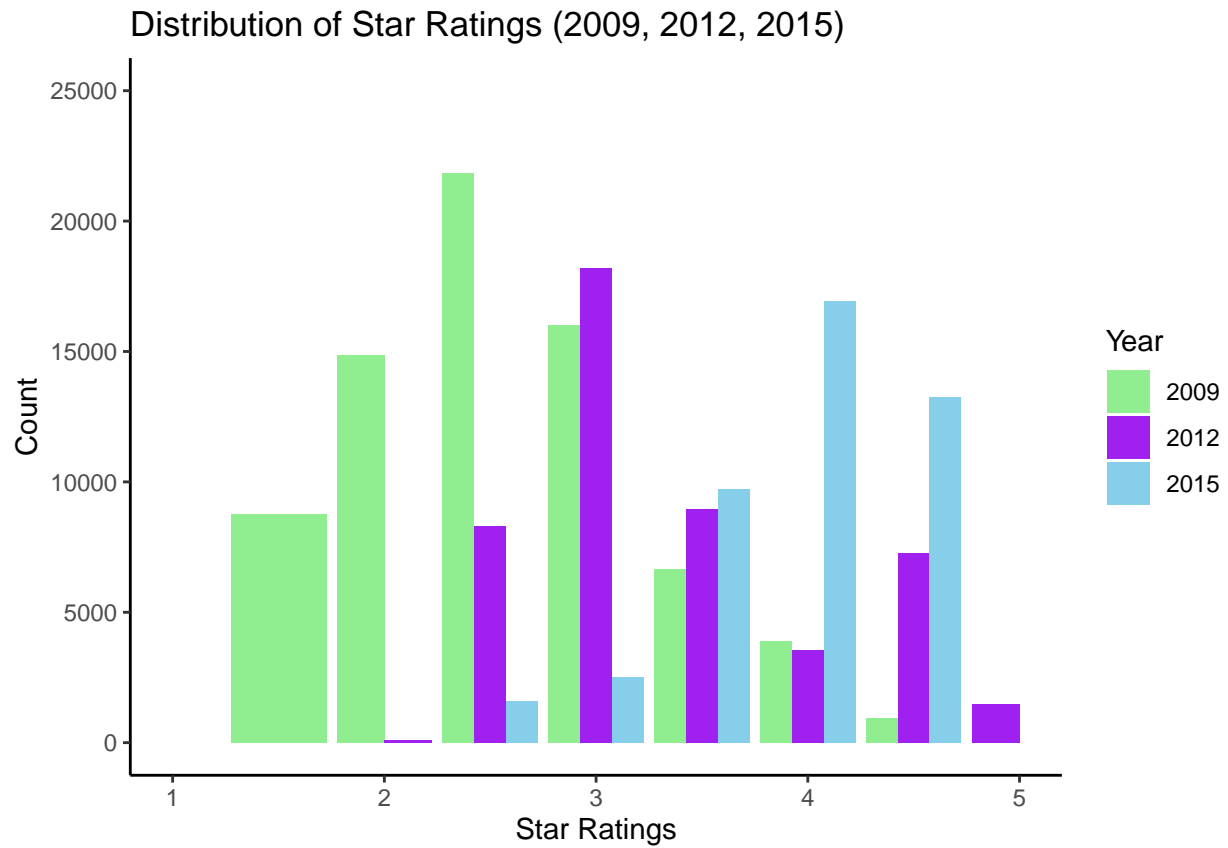
q1.plot



These ranges of plan counts seem too few - I would assume more in the 12-20 range.

Question 2

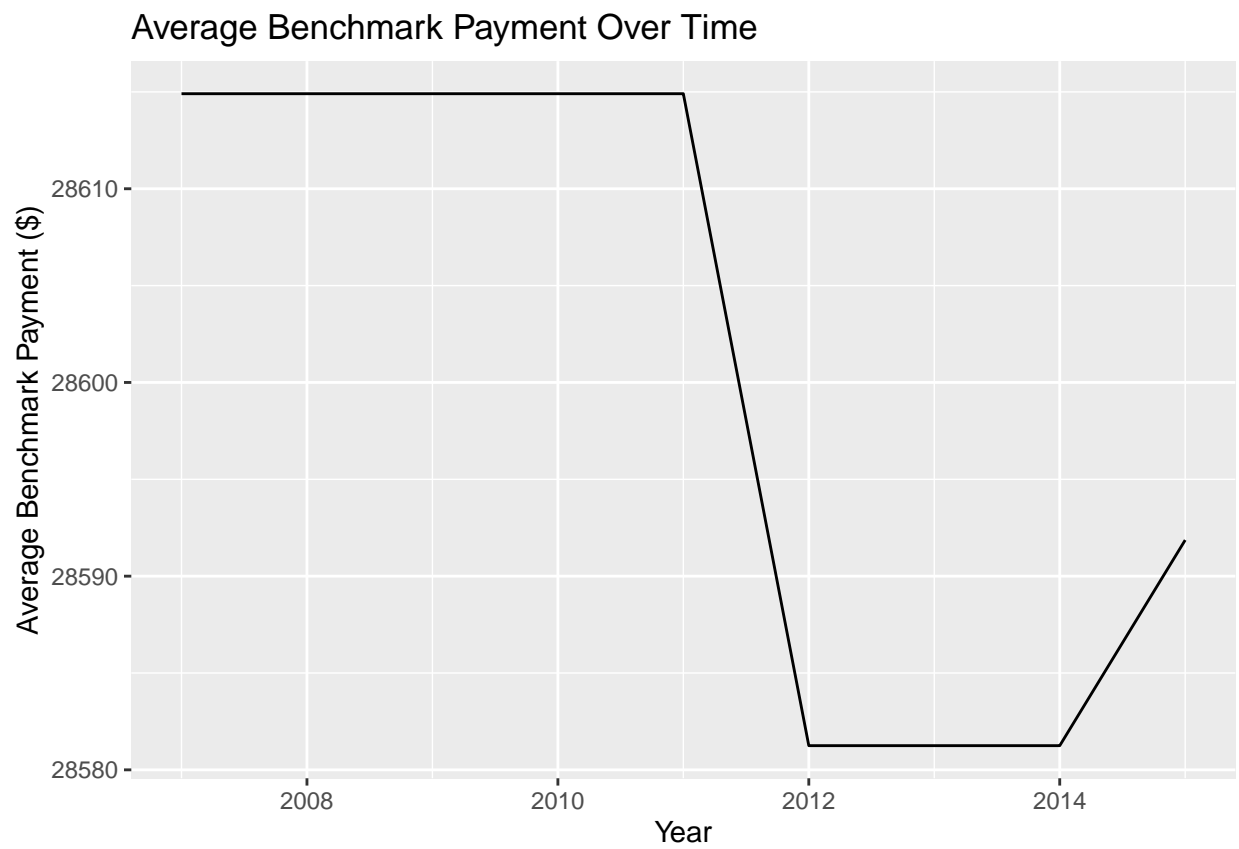
q2.plot



Over time, the distribution of higher star ratings (ratings of 4-5) has increased. In later years, there are less low ratings and more high ratings.

Question 3

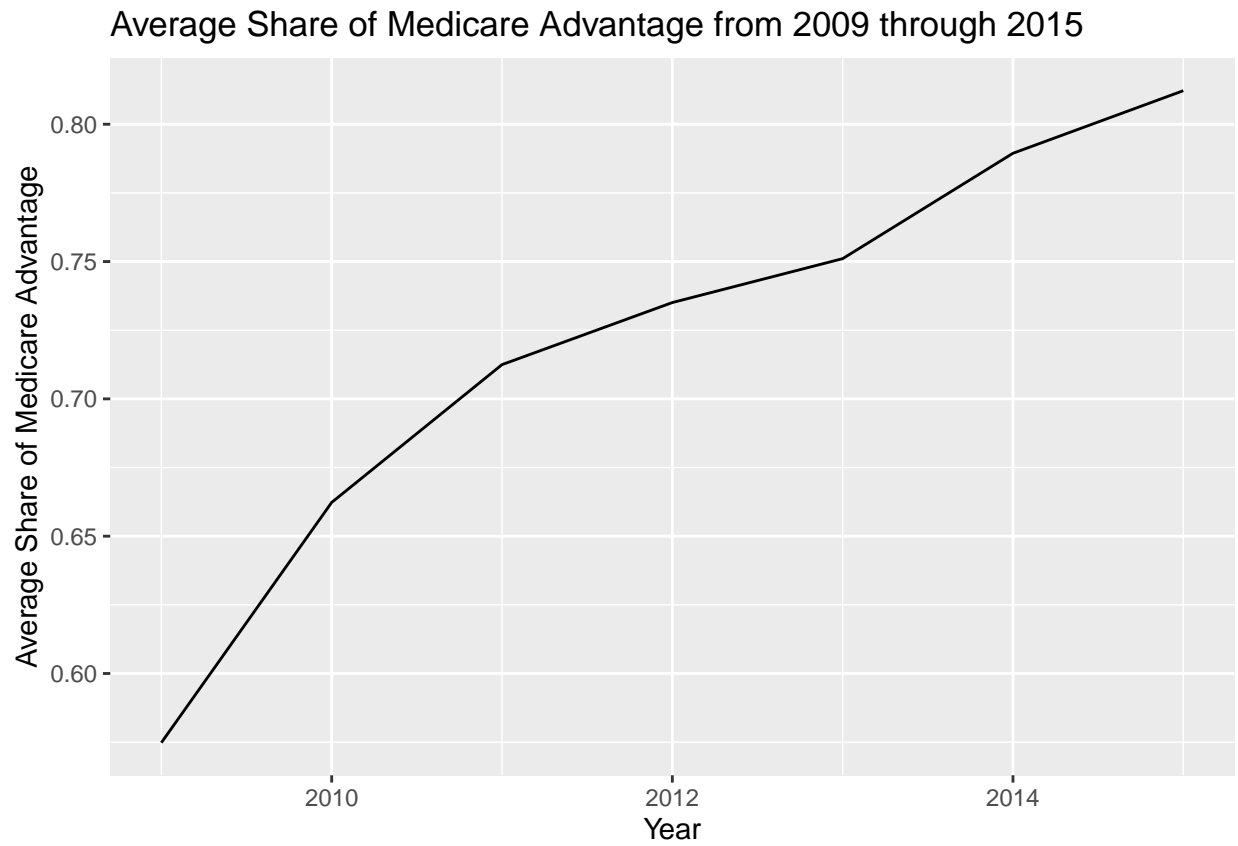
q3.plot



Over the years, the average benchmark payment has dipped and risen, overall decreasing to ~\$28,595.

Question 4

q4_plot



The share of Medicare Advantage has increased in popularity, gradually increasing from 2008 to 2015. This correlates with low benchmark payments.

Question 5

Question 6

Question 7

The findings are very sensitive to the choice of bandwidth. Even incremental changes in bandwidth result in large changes to the

Question 8

The distribution of the running variable before and after the relevant threshold values seems to change drastically.

Question 9

Attempted this code:

```
summary1 <- ma.rd6 %>% filter(score1>-0.25 & score1<0.25) summary1$above <- ifelse(summary1$score1  
> 0, 1, 0) tab9 <- summary1 %>% group_by(above) %>% summarize(prop_partd = mean(partd ==  
"Yes"))
```

Question 10

I found that increasing star ratings generally leads to increases in enrollments.