```
# Question 1 a-c

lm.fit <- lm(Outstate ~ Top10perc)
lm.fit

# Question 1 d

confint(lm.fit)

# Question 1 e

predict(lm.fit, data.frame(Top10perc = c(33)), interval = "confidence")

# Question 1 f

ggplot(data=College)+geom_point(mapping=aes(x=Top10perc,y=Outstate),
position="jitter")+geom_smooth(mapping=aes(x=Top10perc,y=Outstate),
method='lm', formula= y~x)


#Question 2 b

summary(lm.fit)


# Question 3 a

ggplot(data = College, mapping=aes(x=Top10perc,y=Outstate))+
  geom_point(position = "jitter", color = "red")+
  geom_smooth(method = 'lm', se = FALSE)+
  geom_segment(mapping = aes(xend = Top10perc,
  yend = fitted.values(lm.fit)))

# Question 3 c-e

summary(lm.fit)


ggplot(data=College)+geom_point(mapping=aes(x=Top10perc,y=Outstate),
   position="jitter", color = 'purple')
```