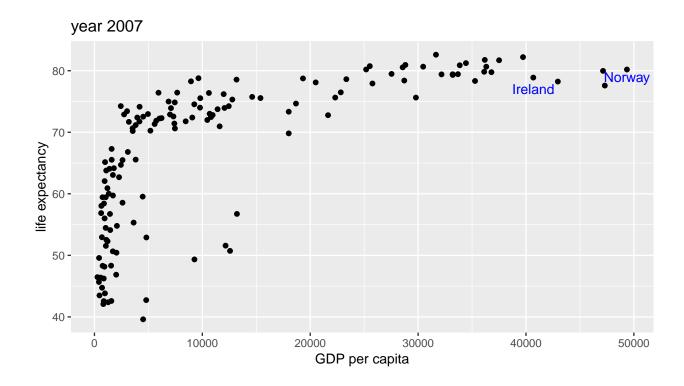
Assignment for Lab 3

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Due noon October 3, 2018

Question 1:Complete Problem 2 from Activity for Lab 3

```
library(ggplot2)
library(gapminder)
library(tidyverse)
## -- Attaching packages ------ tidyverse 1.2.1 --
## <U+221A> tibble 1.4.2
                           <U+221A> purrr
                                          0.2.5
## <U+221A> tidyr 0.8.1 <U+221A> dplyr
                                          0.7.6
## <U+221A> readr 1.1.1 <U+221A> stringr 1.3.1
## <U+221A> tibble 1.4.2
                           <U+221A> forcats 0.3.0
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                  masks stats::lag()
data("gapminder")
head(gapminder)
## # A tibble: 6 x 6
               continent year lifeExp
##
    country
                                          pop gdpPercap
               <fct> <int> <dbl>
##
    <fct>
                                        <int>
                                                 <dbl>
## 1 Afghanistan Asia
                        1952
                                28.8 8425333
                                                  779.
## 2 Afghanistan Asia
                       1957
                                30.3 9240934
                                                  821.
                       1962
## 3 Afghanistan Asia
                                32.0 10267083
                                                  853.
## 4 Afghanistan Asia
                       1967
                                34.0 11537966
                                                  836
## 5 Afghanistan Asia
                        1972
                                36.1 13079460
                                                  740.
                         1977
## 6 Afghanistan Asia
                                38.4 14880372
                                                  786.
y2007 <-filter(gapminder, gapminder$year == 2007)
gdp40000<- filter(y2007, gdpPercap > 40000, continent =="Europe");gdp40000
## # A tibble: 2 x 6
    country continent year lifeExp
                                     pop gdpPercap
    <fct> <fct>
                     <int>
                          <dbl>
                                   <int>
                                            <dbl>
                     2007
                             78.9 4109086
                                            40676.
## 1 Ireland Europe
## 2 Norway Europe
                     2007
                            80.2 4627926
                                            49357.
plot = ggplot()+geom_point(data = y2007,aes(x= gdpPercap,y = lifeExp))+
 annotate("text", x=c(40676.00,49357.19),
          y=c(77,79),
          label = c("Ireland", "Norway"), color = "blue")+
 labs(title = "year 2007", y = "life expectancy", x= "GDP per capita")
plot
```



Question 2:Modify your R code for the previous problem and recreate the graph

```
lab<-("Countries with\n highest GDP")
plot2 = ggplot(data = y2007,aes(x= gdpPercap,y = lifeExp))+geom_point(shape=21)+
  labs(title = "year 2007", y = "life expectancy", x= "GDP per capita")+
  annotate("rect", xmin = 39000,xmax = 51000,ymin = 75, ymax = 85, fill = "red",alpha=0.2)+
  annotate("text", x = 45000, y = 72, label = lab)
plot2</pre>
```

