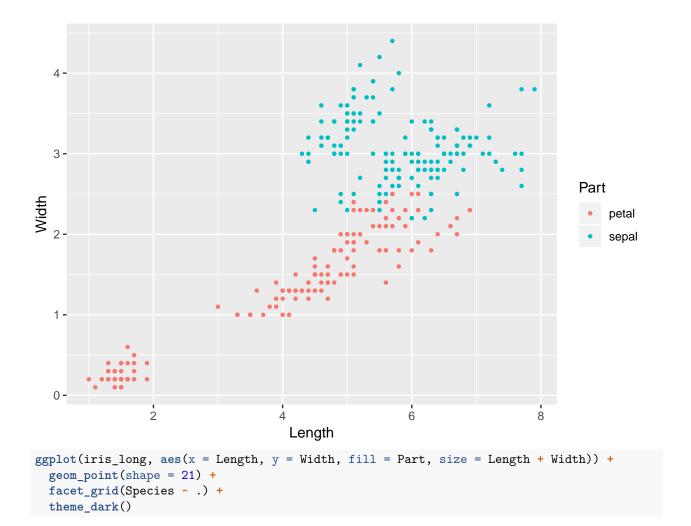
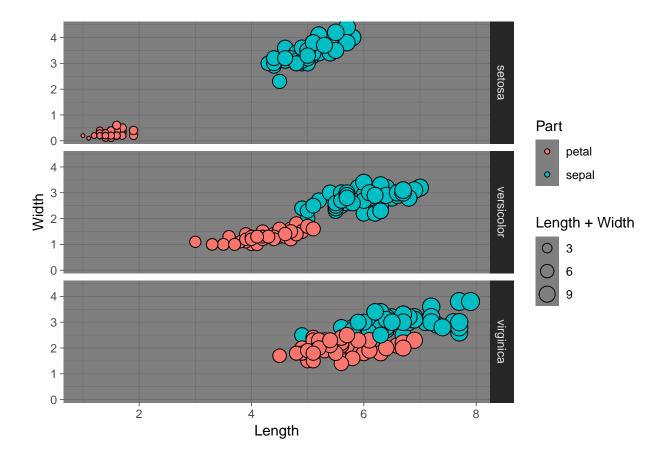
HW06

Oksana Ivanova 3 May 2019

```
set.seed(42)
library(gapminder)
library(ggplot2)
library(datasets)
library(dplyr)
```

Task#1

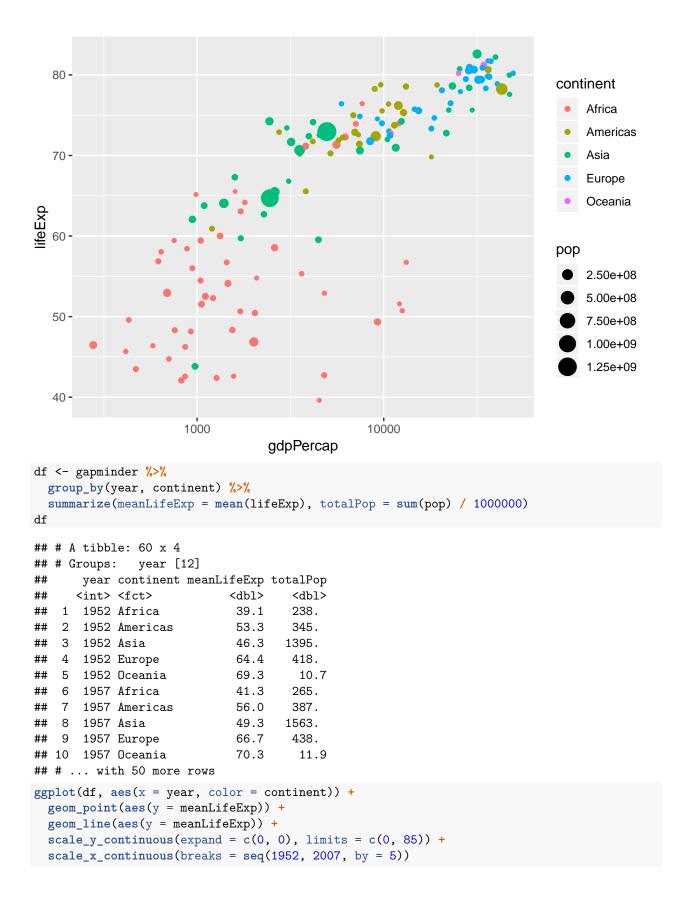


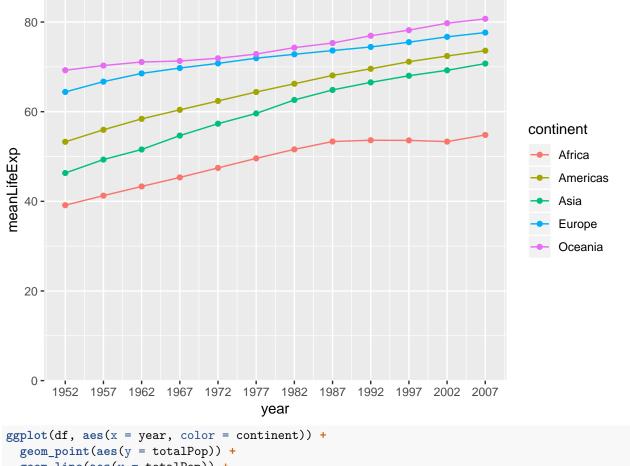


Task#2

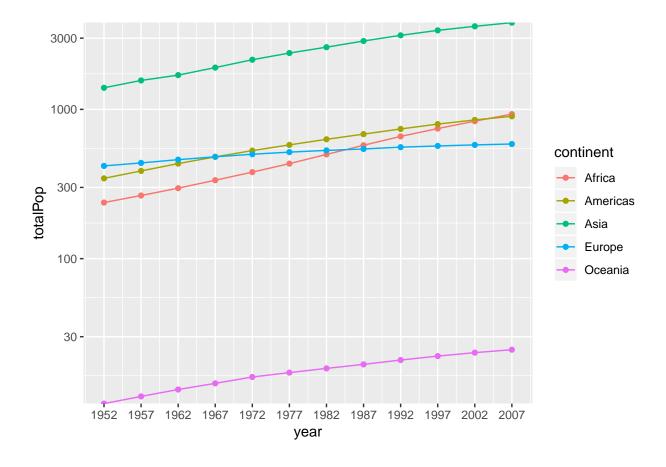
```
df <- gapminder %>%
  filter(year == 2007)

ggplot(df, aes(x = gdpPercap, y = lifeExp, color = continent, size = pop)) +
  geom_point() +
  scale_x_log10(breaks = c(1000, 10000))
```



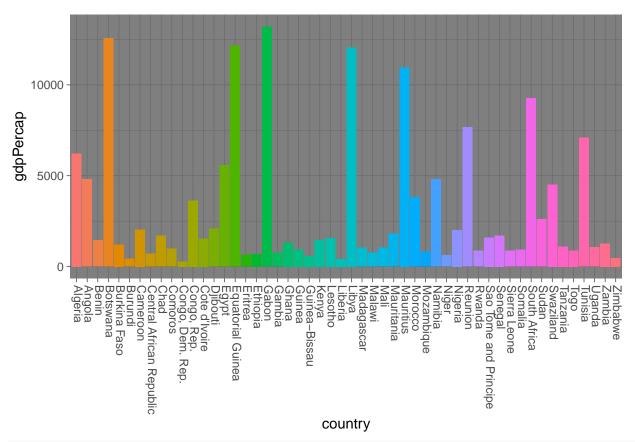


```
ggplot(df, aes(x = year, color = continent)) +
geom_point(aes(y = totalPop)) +
geom_line(aes(y = totalPop)) +
scale_y_log10(expand = c(0, 0)) +
scale_x_continuous(breaks = seq(1952, 2007, by = 5))
```

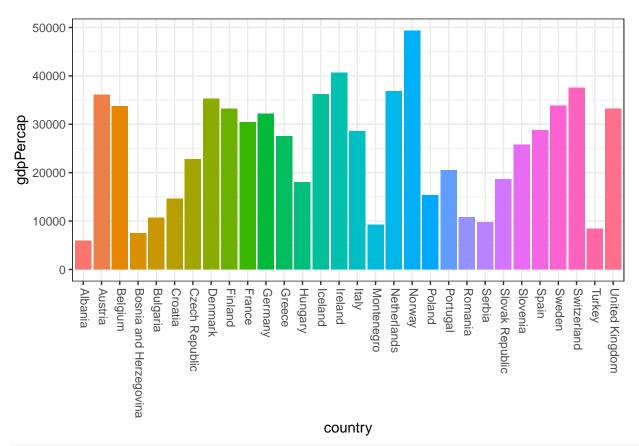


Task#3

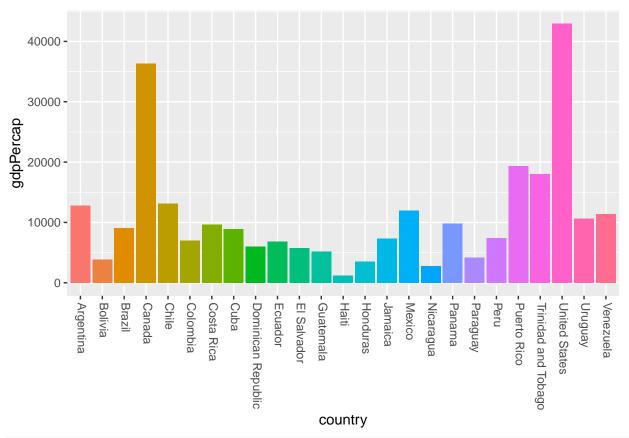
```
gapminder %>%
  filter(continent == "Africa", year == 2007) %>%
  ggplot(aes(x = country, y = gdpPercap, fill = country)) +
  geom_bar(stat = "Identity") +
  guides(fill=FALSE) +
  theme_dark() +
  theme(axis.text.x = element_text(angle = -90, hjust = 0, vjust = 0.3))
```



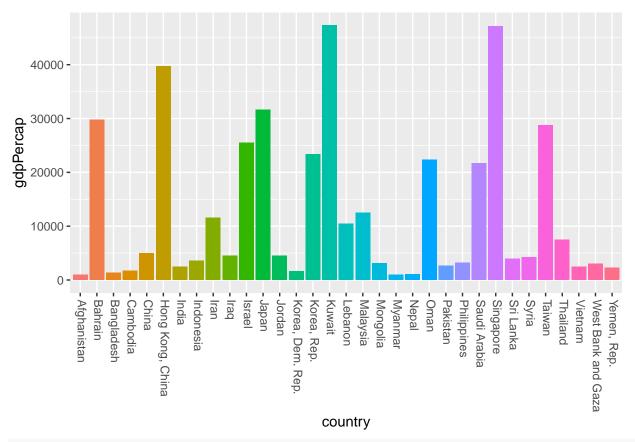
```
gapminder %>%
  filter(continent == "Europe", year == 2007) %>%
  ggplot(aes(x = country, y = gdpPercap, fill = country)) +
  geom_bar(stat = "Identity") +
  guides(fill=FALSE) +
  theme_bw() +
  theme(axis.text.x = element_text(angle = -90, hjust = 0, vjust = 0.3))
```



```
gapminder %>%
  filter(continent == "Americas", year == 2007) %>%
  ggplot(aes(x = country, y = gdpPercap, fill = country)) +
  geom_bar(stat = "Identity") +
  guides(fill=FALSE) +
  theme_get() +
  theme(axis.text.x = element_text(angle = -90, hjust = 0, vjust = 0.3))
```

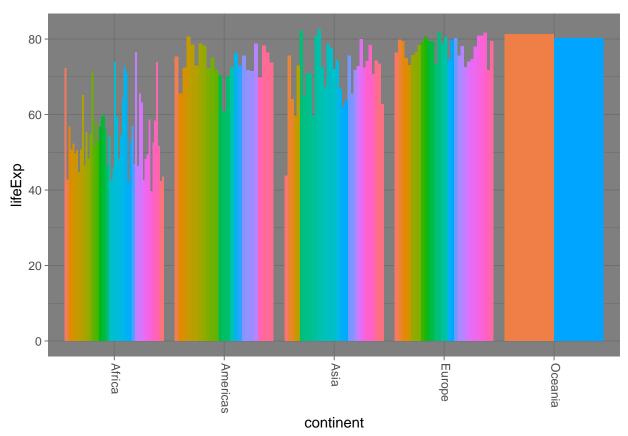


```
gapminder %>%
  filter(continent == "Asia", year == 2007) %>%
  ggplot(aes(x = country, y = gdpPercap, fill = country)) +
  geom_bar(stat = "Identity") +
  guides(fill=FALSE) +
  theme_grey() +
  theme(axis.text.x = element_text(angle = -90, hjust = 0, vjust = 0.3))
```



library(reshape)

```
##
## Attaching package: 'reshape'
## The following object is masked from 'package:dplyr':
##
## rename
gapminder %>%
filter( year == 2007) %>%
ggplot(aes(x = continent, y = lifeExp, fill = country)) +
geom_bar(stat = "Identity",position=position_dodge()) +
guides(fill = FALSE) +
theme_dark() +
theme(axis.text.x = element_text(angle = -90, hjust = 0, vjust = 0.3))
```



```
library(reshape)
gapminder %>%
  filter(continent == "Europe") %>%
  ggplot(aes(x = year, y = gdpPercap, fill = country)) +
  geom_bar(stat = "Identity", position=position_dodge()) +
  guides(fill = FALSE) +
  theme_bw() +
  theme(axis.text.x = element_text(angle = -90, hjust = 0, vjust = 0.3)) +
  scale_x_continuous(breaks = seq(1952, 2007, by = 5))
```

