exercise_6_code+output.R

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```
library(tidyverse)

## -- Attaching packages --------------------------------------- tidyverse
1.2.1 --

## v ggplot2 3.1.0     v purrr   0.3.0
## v tibble  2.0.1     v dplyr   0.7.8
## v tidyr   0.8.2     v stringr 1.3.1
## v readr   1.3.1     v forcats 0.3.0

## -- Conflicts ------------------------------------------------
tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()

library(tibble)
library(ggplot2)
educationcsv <- read.csv(file =
"education_expenditure_supplementary_data.csv")
timesdf <- read.csv(file = "timesData.csv")

sub <- function(data, vars){
  i = length(vars)
  x = 1
  df = NA
  while(i >= x){
    df = rbind(df, filter(data, country==vars[x]))
    x = x + 1
  }
  na.omit(df)
}

educ <- select(educationcsv, country, direct_expenditure_type, X2011)
educ[order(educ$X2011, decreasing = TRUE),] %>% na.omit() -> educ
filter(educ, direct_expenditure_type=="Total") -> educ
countries <- educ[1:20,]$country

times_data <- filter(timesdf, year==2015)
clist <- str_replace_all(countries, "United States", "United States of
America")
sub(times_data, clist) -> times_data
ggplot(data = na.omit(times_data), mapping = aes(country)) +
```

```
  geom_bar() +
  xlab(label = "Country") +
  ylab(label = "Total Institions") +
  theme(axis.text.x = element_text(angle=60, vjust=0.6))
```