Problem Set Part 4

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```
library(dplyr)
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
       intersect, setdiff, setequal, union
##
data <- read.csv("~/Documents/2017-18/ECON241/ps1/pwt_excerpt.csv")</pre>
(A)
data <- data %>% mutate(gdpPercap = rgdpna/emp, capPercap = rkna/emp)
mean(data$gdpPercap)
## [1] 40453.4
cor(data$gdpPercap, data$capPercap)
## [1] 0.8666329
(B)
data <- data %>% mutate(savingsRate = delta*capPercap/gdpPercap)
mean(data$savingsRate)
## [1] 0.1539299
(C)
data <- data %>% mutate(lnA = log(gdpPercap)-1/3*log(capPercap))
mean(data$lnA)
## [1] 6.360615
(D)
countries <- data %>% filter(country %in% c("Republic of Korea", "United States"))
log(countries[1,9]/countries[2,9])
## [1] -0.35477
countries[1,11]-countries[2,11]
## [1] -0.4088857
countries[1,10]/countries[2,10]
## [1] 1.27428
```