Untitled

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library(readxl)  
library(carData)  
library(car)  
ch12bt20 <- read\_excel("E:/KTL/KTL\_01/Chương1/ch12bt20.xls")  
ch12bt20

## # A tibble: 88 × 5  
## GDP PDI PCE PROFIT DIVIDENT  
## <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 2873. 1991. 1800. 44.7 24.5  
## 2 2860. 2020. 1808. 44.4 23.9  
## 3 2897. 2045. 1825. 44.9 23.3  
## 4 2874. 2045. 1821. 42.1 23.1  
## 5 2943. 2074. 1850. 48.8 23.8  
## 6 2947. 2098 1864. 50.7 23.7  
## 7 2966 2107. 1877. 54.2 23.8  
## 8 2981. 2121. 1905. 55.7 23.7  
## 9 3037. 2130. 1929. 59.4 25   
## 10 3090. 2149. 1963. 60.1 25.5  
## # … with 78 more rows

summary(ch12bt20)

## GDP PDI PCE PROFIT DIVIDENT   
## Min. :2860 Min. :1991 Min. :1800 Min. : 42.10 Min. : 23.10   
## 1st Qu.:3284 1st Qu.:2388 1st Qu.:2108 1st Qu.: 97.62 1st Qu.: 30.57   
## Median :3784 Median :2777 Median :2469 Median :134.50 Median : 62.25   
## Mean :3866 Mean :2800 Mean :2537 Mean :131.30 Mean : 69.16   
## 3rd Qu.:4396 3rd Qu.:3248 3rd Qu.:2959 3rd Qu.:168.43 3rd Qu.:105.20   
## Max. :4903 Max. :3548 Max. :3281 Max. :226.00 Max. :138.50

GDP=ch12bt20$GDP  
summary(GDP)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 2860 3284 3784 3866 4396 4903

mean(GDP)

## [1] 3865.606

var(GDP)

## [1] 396944

sd(GDP)

## [1] 630.0349

cor(ch12bt20)

## GDP PDI PCE PROFIT DIVIDENT  
## GDP 1.0000000 0.9950656 0.9977719 0.8708446 0.9803842  
## PDI 0.9950656 1.0000000 0.9970208 0.8469249 0.9823159  
## PCE 0.9977719 0.9970208 1.0000000 0.8521175 0.9842477  
## PROFIT 0.8708446 0.8469249 0.8521175 1.0000000 0.7894042  
## DIVIDENT 0.9803842 0.9823159 0.9842477 0.7894042 1.0000000