Freshman seminar homework2

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```
library(rbenchmark)

#fun1 is about loop
fun1 <- function(n){
  tmp <- 0
  for(i in seq_len(n)){
    tmp <- tmp + i
  }
  return(tmp)
}

#fun2 is about lapply
fun2 <-function(n){
  z <- lapply(list(c(1:n)),sum)
  return(z)
}


res <- benchmark(fun1(1000000),fun2(1000000),replications=10,
                 columns=c("test","elapsed","relative","user.self","sys.self"))
res
```

```
##          test elapsed relative user.self sys.self
## 1 fun1(1e+06)    0.40    2.667      0.41        0
## 2 fun2(1e+06)    0.15    1.000      0.13        0
```

```
#so there are some differences between loop and lapply.
#The lapply's speed is faster (usually 2~3 times, watch the relative part) than loop's speed.
```