hw3.1B_estes

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```
library(dplyr)
M <- 120000
biglist <- tibble(ID = seq(1,M),
    oops=c(rnorm(M, mean=0, sd=1)),
    IDSum = (ID + oops))
write.csv(biglist, "biglist.csv")
df <- read.csv("biglist.csv")
tail(df, 9)
```

Using R to read the CSV is far quicker than Google Sheets. It takes roughly the same time as it does Excel, however, being able to access the data directly certainly gives R the edge.

Now to try 1.2 Million results. . .

```
M <- 1200000
biglist <- tibble(ID = seq(1,M),
    oops=c(rnorm(M, mean=0, sd=1)),
    IDSum = (ID + oops))
write.csv(biglist, "biglist1M.csv")
df <- read.csv("biglist1M.csv")
tail(df, 9)
```

Interestingly enough, CSV won't allow 1.2 million results. My results ended at 1,048,576 in excel but reached the full 1.2 million via R. I didn't even try google sheets due to the cumbersome use for just 12 observations.