

Lab 3: Parameters & Estimators

Graded Out of 35 Points

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2025-02-18

We will again be using our Palmer Penguins data today for some problems, so let's load that package in now:

```
library(palmerpenguins)

#I also want us just to focus on two species, Adelie and Gentoo, so we are going to cut the (
#Let's also toss out rows with NA values for body mass
penguins <- penguins[penguins$species!="Chinstrap" & !is.na(penguins$body_mass_g),]
```

1. Gauging Estimator Effectiveness

Problem 1.1 (5 points)

A. (1 Point) Write a function to calculate W^2 from a given sample

```
True_XVar <- function(Xset){
  Xrunning_sum <- 0
  Xmean <- mean(Xset)

  for (i in 1:length(Xset)) {
    Xrunning_sum <- Xrunning_sum + ((Xset[i] - Xmean)^2)
  }

  Xvar_result <- Xrunning_sum/length(Xset)
  print(Xvar_result)
}
```

- B. (2 Points) Create two plots (using function `plot` with option `type="l"`) showing (1) how the mean (*i.e.*, expected value) of W^2 over 1000 samples of size n changes with increasing sample size (vary n from 1 to 100), for data sampled from a standard normal distribution, and (2) how the mean (*i.e.*, expected) sample variance changes with increasing sample size for the same distribution (using function `var`).

```
##: initializing the mean value of true var (W2), the mean value of sample var and distribut
True_Xvar_results <- c()
True_Xvar_means <- c()
Sample_Xvar_results <- c()
Sample_Xvar_means <- c()

##: Calculate the mean value of true var of random variable X 100 times and plot the distrib
for(i in 1:100){

  for(j in 1:1000){
    True_Xvar_results[j] <- True_XVar(rnorm(i))
  }
  True_Xvar_means[i] <- mean(True_Xvar_results)
}
```

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