## Problem Set 1 Submission

## Applied Stats/Quant Methods 1

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## **Question 1: Education**

Data will first be loaded or in this case manually constructed:

- 1. Calculation of 90% confidence interval for student IQ
  - (a) Step 1: Calculation of the sample mean:
    - Calculation of sample mean manually

```
ybar_mnl < sum(y)/length(y)
```

The sample mean for the IQ score calculated manually is 98.44

• Calculation of sample mean using R

```
ybar_r_cal \leftarrow mean(y)
```

The sample mean for the IQ score calculated using R is also 98.44

(b) Step 2: Calculation of the sample variance:

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