

Research Methods

Sampling Assignment (*20 points*)

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Create a reproducible document containing your analysis for the following problem and submit your R markdown and html files on Canvas.

This [list](#) contains the names of the Institute of Electrical and Electronics Engineers (IEEE) presidents from 1963 to present.

1. Create a sample of size 10 of IEEE presidents using ***simple random sampling*** technique and report them in a table.
 - Explain your process.
 - How many female presidents are in your sample?
 - Is this method EPSEM? Why or why not?
2. Create a sample of size 10 of IEEE presidents using ***disproportional stratified sampling*** technique (10% female, 90% male) and report them in a table.
 - Explain your process.
 - How many female presidents are in your sample?
 - Is this method EPSEM? Why or why not?

Please note that for both parts random numbers and tables need to be generated in R.