

Spring 2020: CSE 5301

Homework 3

Directions

- The assignment must be submitted on [UTA Canvas](#).
- If its typed, make sure the extension is (.pdf)
- If its handwritten, make sure to scan at high enough dpi that the text is legible and readable
 - Save as .pdf or .png
- If your submission is a single file name it as <net-id>_hw3.<extension>
- If your submission is made of multiple files, zip them together into a single archive
 - Only .zip archives accepted
 - Name the file <net-id>_hw3.zip
 - Contact the instructor or TA if you have any issues creating archives
- **ALL WORK HAS TO BE INDIVIDUAL WORK.**

Questions

Q1.

- (a) Estimate the parameters of the Uniform distribution these samples were drawn from: [8.91, 11.85, 8.51 10.82, 8.34, 8.99, 11.99, 8.83, 10.56, 9.83]
- (b) Estimate the parameters of the Negative Binomial distribution these samples were drawn from: [11, 10, 9, 11, 15, 10, 11, 10, 8, 13]
- (c) Estimate the parameter of the Gamma distribution these samples were drawn from: [1.05, 0.44, 0.74, 0.49, 0.84, 0.73, 0.70, 0.53, 0.50, 0.63]

9.2, 9.7, 9.8, 9.9, 9.10, 9.11, 9.16, 9.17, 9.20 (Use alpha value of 0.05)