

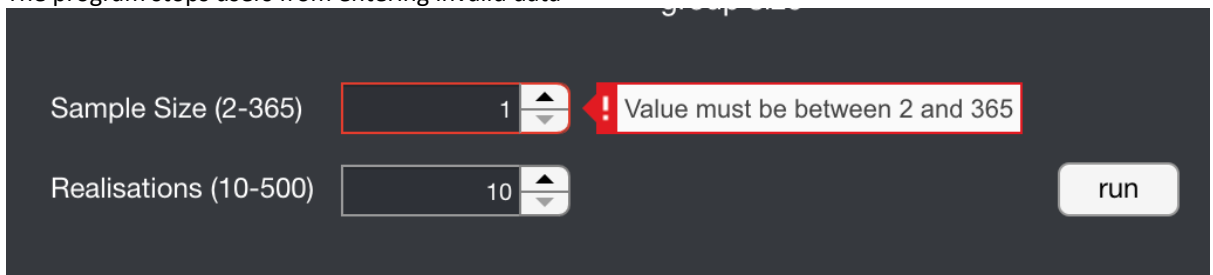
## Testing

	Yes/No
Does it plot Theoretical vs Simulated?	Yes
Do the x and y axis limits change to best represent the data?	No
Do the User Inputs have checks for valid inputs?	Yes
Can the program be run more than once upon boot?	Yes
Does it satisfy all the constraints?	Yes

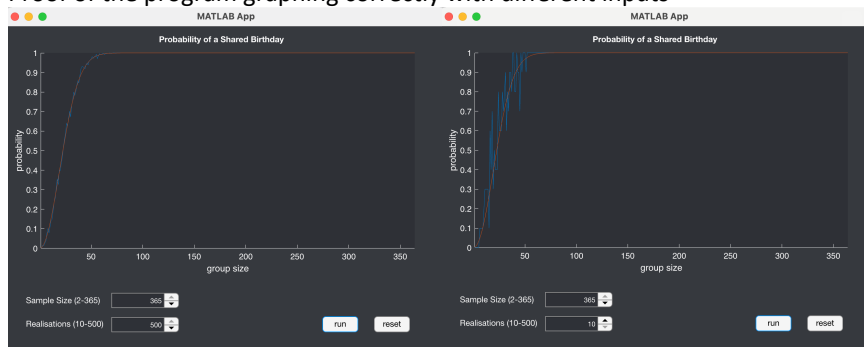
## Evaluation

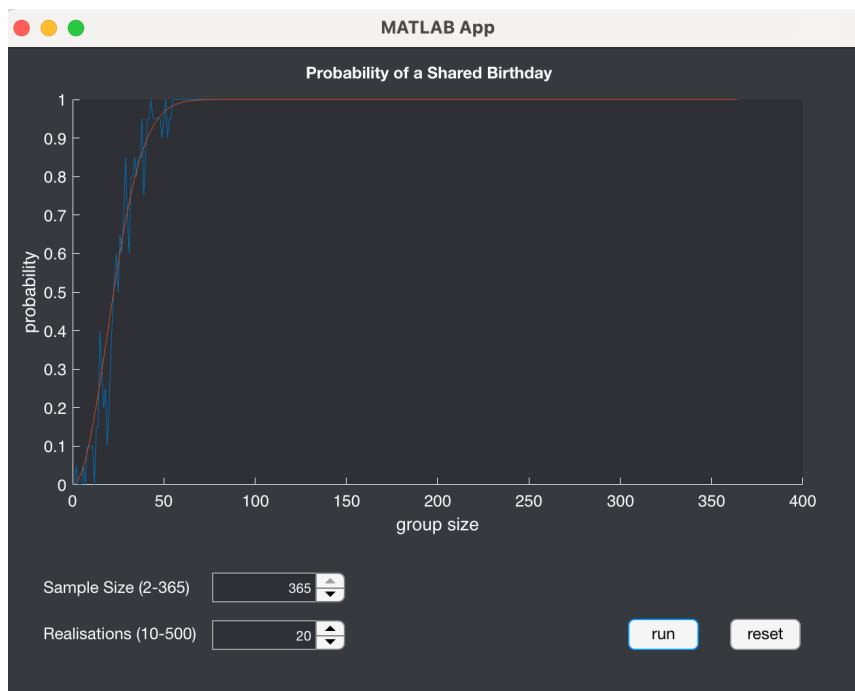
The program draws a GUI that the user can interact with to input custom sample sizes and realisations. It is required of us to develop a program that investigates the 'birthday paradox' problem and draws a graph that lets the user analyse the paradox with ease. The program needs to take user input in the form of a Graphical User Interface. The user will use the GUI to both view the graph of the theoretical vs. simulated solutions to the birthday paradox problem, as well as input the desired sample size and realisations. Upon pressing the 'run' button the user shall be presented a graph with the two plots.

- The program stops users from entering invalid data



- Proof of the program graphing correctly with different inputs





## Improvements

- The inclusion of a legend
- Changing limits to better represent the data
- More features like a loading bar (for code run time)