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Prob & Stats

Octave Tutorial & writeup

Octave is a language specifically for using math and is pretty simple to use. Like python you can leave comments with a pound sign, and you don’t need to declare variable types. If you want the statement to print then you don’t use a semi colon at the end, and vice versa. The commands print to the terminal There are for loops within the program as well. You plot something by using the plot command. There are also if and else statements for Boolean logic. This does make plotting easier rather than ripping a file and writing a new one then opening it with excel. As here the graph is just within the language. You can create a vector which is like running a variable through a loop and you can choose the starting point the end point, and the number you jump by each iteration. You also want to put a period in front of operators so that it will iterate. For the Salter I changed the color of the line and added a random number and made it so that they both appear at the same time. For the salter I used a method that did it for me given a set of data and a window value.

A graph with a line graph

Description automatically generated with medium confidence

Final Result