
```
% HistogramSuccessfulMissions.m is a script, it'll display a histogram of x
% amount of tries. This script calls the function that was wrote previously
% in task 3.2 and 3.3.
%
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% clears the workspace and empty the command window
clear
clc

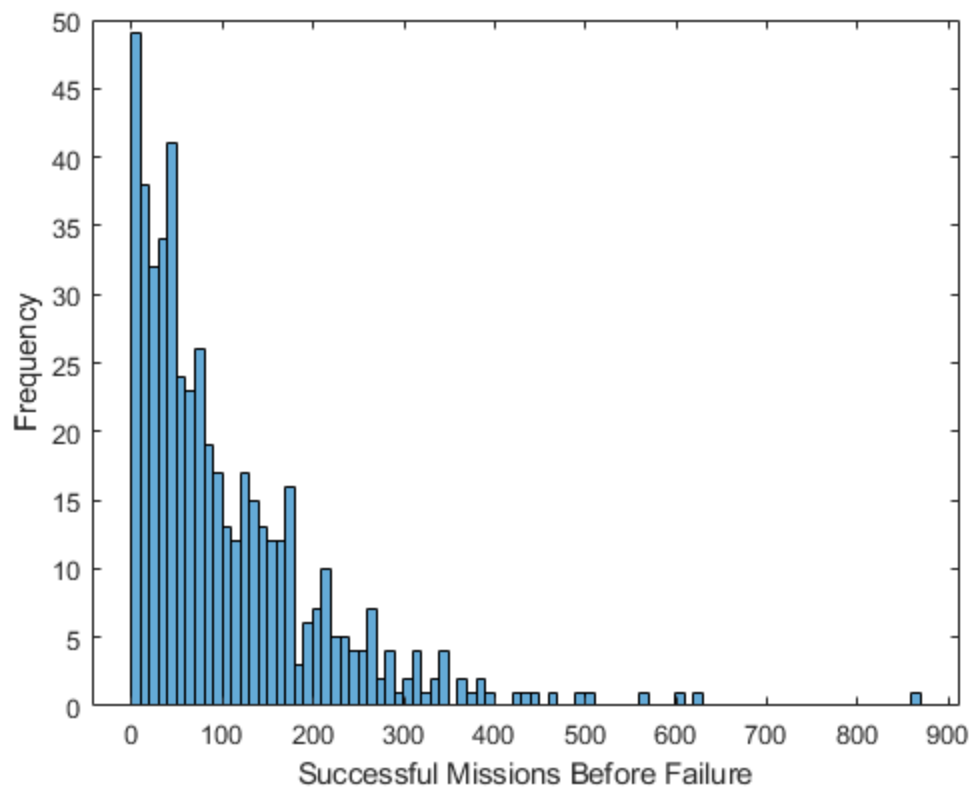
% attemps is the number of simulation to be tested
% Size is the number of tries per simulation
% Could potentially switch to using input for user to enter the testing
% values.

%attempts = input('Enter the amount of simulation for this experiment: ');
%Size = input('Enter the amount of tries per simulation: ');
attempts = 500;
Size = 1000;

% creates an empty list for the variables to go in
data = [];

% Generate x amount of attempts and each attempt is randomised and calls and
% calculate using the function 'NumberOfSuccessfulMissions'
for i = 1:attempts
    x = 100 * rand(attempts, Size);
    data(end + 1) = NumberOfSuccessfulMissions(x);
end

% Calls the histogram function
SuccessfulMissionHistogram(data)
```



Published with MATLAB® R2022a