

Homework 3

Due: Monday, September 29

Look at the drunken sailor problem in the lecture notes. Code the original version (see notes), then modify it so that each sailor has 60% chance of moving to the right and 40% chance of moving to the left. Number of steps = 120, For the number of sailors use 100, 1000, 10000.

1. Output your result in a frequency plot (one for each number of sailors), where the x axis is the number of steps in each direction from the origin the y axis is the frequency (!)
2. Discuss the result and compare it to the symmetric example in the lecture notes.