

X419-01: Take-Home Assignment 1

Assume you are given a function `bool hit(int x, int y)` that returns true if there was a hit to a ship and false if not. You are to write a function that returns the coordinates of a single ship on a grid of given size, the function takes at least one argument `int gridSize` and must return the coordinates of the 3 unit ship present in the board in the shortest time possible. Estimate the Time and memory complexity of your proposed solution. You are to select the data structure to return what you need as output and the prototype of the function.