Lab 05: Recursive Algorithms

* TASK 03

Procedure

1. A 20x20 maze is generated.
2. The maze is populated (Write 1) in random number of cells and random positions in the maze.
   1. The random number of cells <= 400
   2. The random positions is: 0<=x<=20 & 0<=y<=20
3. Then find whether there exists a path between (0, 0) and (19, 19), If so count them.
4. Then go to step 1 and repeat again for several number of times (in my case 1010 simulations).

This procedure is followed for 5000, 104, 105, 106, 107, 109, 1010 and average probability reached is 0.113.This probability suggests us that in 2400 all possible mazes there can be around 2390.2 mazes where there can exists a path between (0, 0) and (19, 19).

x100= 0.113