Objective:

- The purpose of this quiz is to focus on the very basic fundamental concepts practiced so far in previous labs.

Question No 1:   **(**10**)**

Consider the following matrix filled with zero and one.

	0	1	2	3	4	5	6	7
0	0	1	1	0	0	0	0	0
1	0	0	1	0	0	0	0	0
2	0	0	1	0	1	0	1	0
3	0	0	1	0	1	0	0	0
4	0	1	1	1	1	1	1	1
5	1	0	1	0	1	0	1	0
6	0	0	0	1	0	0	1	0
7	1	1	0	1	1	1	1	0

You can think of zeros as islands and ones as water.

If you are at some island then you can move in only four directions (top/bottom/left/right).

For Example:

1. Assume, you are at (3,0) then you can move on top (2,0), or right (3,1), or towards bottom (4,0) but not left because its end of map.
2. Assume you are at (7,2) then you can only move towards top i.e. (6,2)

Considering the above discussion there are 6 islands in above map.

Your task is to write a function which will receive a matrix of order 'N', each location filled with either 0 or 1 and your position (x,y) on the map. Your function will explore the complete island that you are on by changing the values from 0 to 2.

For Example

If we call ***explore(matrix, 8, 6, 2)***, for the above matrix then the received matrix status becomes as follows:

	0	1	2	3	4	5	6	7
0	0	1	1	0	0	0	0	0
1	0	0	1	0	0	0	0	0
2	0	0	1	0	1	0	1	0
3	0	0	1	0	1	0	0	0
4	0	1	1	1	1	1	1	1
5	1	2	1	0	1	0	1	0
6	2	2	2	1	0	0	1	0
7	1	1	2	1	1	1	1	0