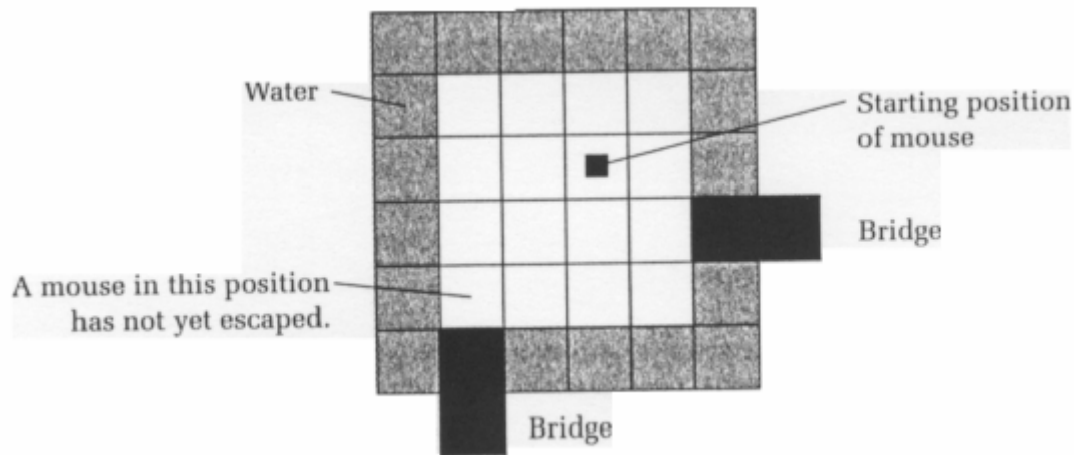


CMPE150.03 PROJECT3

Deadline: December 6th, 2002, 17:00

The following diagram represents an island surrounded by water (shaded area).



Two bridges lead out of the island. A mouse is placed on the black square. Write a program to make the mouse take a walk across the island. The mouse is allowed to travel one square at a time, either horizontally or vertically. A random number from 1 through 4 should be used to decide which direction the mouse is to take. The mouse drowns when he hits the water; he escapes when he enters a bridge. You may generate a random number up to 100 times. If the mouse does not find his way by the hundredth try, he will die of starvation. Restart the mouse in a reinitialized array and go back and repeat the whole process. Count the number of times he escapes, drowns, and starves.

Input

- **First input line**-the size of the array, including border of water and bridges and the number of trials.
- **Next N input lines**-the rows of the two-dimensional array, where the positions containing negative numbers represent the water, the positions in the edge containing a 0 represent the bridges, the position containing a 1 represents the starting position of the mouse, and all other positions contain 0S

Output

- A line stating whether the mouse escaped, drowned, or starved
- A line showing the mouse's starting position and the position of the two bridges
- A map showing the frequency of the mouse's visits to each position
- You should print the items above (double spaced between trips) for each trip by the mouse.

Material to Submit

You will submit the following:

- the printout of the source listing of your program
- the source code and the executables (.c and .exe) in a diskette.
- mail your source code file (.c) to onuro@boun.edu.tr with the name yournumber.c (e.g. 97022425.c or 2001002425.c). The subject of the e-mail should be "cmpe150 project3". Deadline is December 6th, 2002, 17:00. Please note that the time of my receiving of your mails is important. If you send your mail and I do not take it on time I am not responsible for this delay. Also do not send mails more than once.