(1) There is a board of **NxM** size. Each cell of the board is either
   (a) ‘x’ : the cell is blocked
   (b) ‘o’ : the cell is free
   (c) ‘s’ : starting cell
   (d) ‘e’ : exit cell

Starting and ending cells are also considered free.

There is a king (a chess piece) on the board occupying the start cell. Can you find the minimum number of moves required to reach the exit cell ?

Sample Input	**Sample Output**
4 4 oxox sxoe oxxo oooo	5

Explanation:
The first line contains N, M.
Here N = 4, M = 4

The optimal movements of the kings are shown in the following,

oxox	oxox	oxox	oxox	oxox	oxox
sxoe →	sxoe →	sxoe →	sxoe →	sxoe →	sxo**e**
oxxo	**o**xxo	oxxo	oxxo	oxx**o**	oxxo
oooo	oooo	o**o**oo	oo**o**o	oooo	oooo

(2) You are given an array **A** of positive integers of size **N**. The array is 0-indexed.
You start with index 0.
When you are at index i, you can jump to index i-A[i] or i+A[i] if the index is within the array.
Is it possible to reach the last index (N-1) ?

Sample Input	**Sample Output**
5 2 3 1 3 2	YES
3 1 2 1	NO

Explanation:

For sample-1: To reach 4th index from 0th index, you may follow this path:
0 -> 2 -> 1->3

You start at the 0th index. As A[0] = 2, you can jump to index (0-2) = -2 or (0+2) = 2. But -2 is out of the array, so you can only jump to the 2nd index.

When you are at 2nd index, As A[2] = 1, you can jump to index (2-1) = 1 or (2+1) = 3. To reach the last index you jump to the 1st index.

When you are at 1st index, As A[1] = 3, you can jump to index (1-3) = -2 or (1+3) = 4. To reach the last index you jump to the 4th index.

For sample-2: It's not possible to reach the last index

(3) Given a bidirectional unweighted graph, find the number of connected components in the graph.

Input Format:

First line contains two integers, N = number of nodes, M = number of edges.
Each of the next M lines contain two integers U, V denoting there is an edge between node U and node V.

Sample Input	**Sample Output**
6 4 1 2 2 5 3 6 5 1	3

Explanation:

The graph has 3 connected components,

(a) 1, 2, 5
(b) 3, 6
(c) 4