'''

Kittu playing a game, the game contains a panel of N cells.

Each cell in the panel is a number panel[i],

Kittu will win when he reaches 0.

The rules to play the game are as follows:

- Kittu's intital position is S.

- When Kittu is at index i, he can move to position-(i + panel[i] ) or

position-(i - panel[i]).

- Kittu cannot move outside the panel.

- if he reaches any panel[i] has value 0, He wins.

Your task to find that whether kittu wins or not.

if he wins print "true".

if there is no way to reach 0 then print "false".

NOTE: cell positions are numbered from 0 to N-1.

0<= panel[i] < N

Input Format:

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Line-1: Two integers N and S, number of cells in the panel and

Kittu's initial position.

Line-2: N space separated integers.

Output Format:

--------------

Print a boolean value.

Sample Input-1:

---------------

7 5

4 2 3 0 3 1 2

Sample Output-1:

----------------

true

Explanation:

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All possible ways to reach at position 3 with value 0 are:

position 5 -> position 4 -> position 1 -> position 3

position 5 -> position 6 -> position 4 -> position 1 -> position 3

Sample Input-2:

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5 2

3 0 2 1 2

Sample Output-2:

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false

'''

In a hall, the blocks are arranged in the form of a tree,

based on the serial numbers allotted to that room.

The seating arrangement is filled in the following way:

- left sub node data is always smaller than the current node data.

- right sub node data is always greater than the current node data.

You are given the final tree T.

Your task is to convert the tree T to Altered Tree such that every data

of the original tree T is changed to the original data plus sum of all data

greater than the original data in tree T and return the Altered Tree T.

and print the altered tree using in-order traversal.

Your task is to implement the class Solution:

- public BinaryTreeNode alterTree(BinaryTreeNode root):

return the root node of the altered tree.

- public void inOrder(BinaryTreeNode root):

print the node data of the altered tree.

NOTE:

The term data indicates serial number of the aspirant.

Input Format:

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Single line space separated integers, serial numbers of the aspirants.

Output Format:

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Print the inorder traversal of altered bst.

Sample Input-1:

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8 3 10 1 6 14 4 7 13

Sample Output-1:

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66 65 62 58 52 45 37 27 14

Sample Input-2:

---------------

4 2 6 1 3 5 7

Sample Output-2:

----------------

28 27 25 22 18 13 7

'''

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NOTE: cell positions are numbered from 0 to N-1.

0<= panel[i] < N

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Print a boolean value.

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7 5

4 2 3 0 3 1 2

Sample Output-1:

----------------

true

Explanation:

------------

All possible ways to reach at position 3 with value 0 are:

position 5 -> position 4 -> position 1 -> position 3

position 5 -> position 6 -> position 4 -> position 1 -> position 3

Sample Input-2:

---------------

5 2

3 0 2 1 2

Sample Output-2:

----------------

false

'''

A merchant has two types of idols, gold and silver.

He has arranged the idols in the form of m\*n grid,

- the gold idols are represented as 1's

- the silver idols are represented as 0's.

Your task is to find the longest consecutive arrangement of gold idols,

The arrangement can be either horizontal, vertical, diagonal or

antidiagonal, but not the combination of these.

Input Format:

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Line-1: Two space separated integers m and n, grid size.

Next m lines : n space separated integers, arrangement of idols.

Output Format:

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Print an integer, longest arranement of gold idols.

Sample Input:

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4 5

1 0 1 1 1

0 1 0 1 0

1 0 1 0 1

1 1 0 1 1

Sample Output:

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4