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Best Pile

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There is a n*m grid with square cells. There are blocks with a square base and an arbitrary integer height h on some cells.

Pile of blocks is a set of blocks in which, every block shares a grid cell wall with at least one other block of the set. Therefore, each block must be a part of only one pile.

Output the open surface area of the pile with the highest open surface area.

Notes: - A part of a surface is considered hidden if it's covered by another block. - Underside of a block is considered hidden - Consider the width of a cell as 1 unit and height is also given in this unit

subtasks:

- each pile fills only 1 cell 5 pts
- there is only one pile in the whole grid 45 pts
- No extra constraints 50 pts

Input Format

first line contains two integers n and m each of next n lines contains m integers, height n of the block in that cell. (0 if the cell is empty)

Constraints

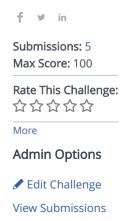
 $n < 10^{2}$

 $m < 10^{2}$

 $h < 10^{6}$

Output Format

single integer - maximum found surface area





```
3
      #include <vector>
     #include <iostream>
   4
   5 #include <algorithm>
     using namespace std;
   6
   8
   9 <del>√</del> int main() {
           /\star Enter your code here. Read input from STDIN. Print output to STDOUT \star/
  10 ▼
           return 0;
  11
  12
      }
  13
                                                                                                          Line: 1 Col: 1
<u>♣ Upload Code as File</u> Test against custom input
                                                                                           Run Code
                                                                                                         Submit Code
```

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