Best Pile

locked

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There is a $n * m$ grid with square cells. There are blocks with a sqaure 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 h 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

Submissions: 5
Max Score: 100

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C++

```
1 #include <cmath>
2 #include <cstdio>
```

```cpp
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;


int main() {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    return 0;
}

```

Line: 1 Col: 1

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