

# Largest Product

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## Description

Your task is to take an **N**-by-**N** grid and determine the greatest product of any **X** adjacent numbers in the same direction (up, down, left, right, or diagonally – think Connect 4).

## Example

In this example, **N** = 4 and **X** = 4.

□

The largest 4-term product in this 4 x 4 grid is  $99 * 90 * 80 * 85 = 60588000$ .

## Input

The first line contains two positive integers **N** and **X**. **N** is the size of the grid and **X** is the number of terms to be multiplied together. The next **N** lines each contain **N** whitespace-separated non-negative integers each less than 100.

## Limits

$1 \leq X \leq N \leq 10$

## Output

Output a single line containing the largest **X**-term product in the grid.

Input	Input
4 4	5 3
99 1 3 4	1 2 3 4 5
1 90 2 4	6 5 4 3 2
2 3 80 2	3 4 5 6 7
3 4 2 85	8 7 6 5 4
	5 6 7 8 9

Output	Output
60588000	504