



(/en/),
v1.1.0

CSD Testing System

(/en/)

The transpose of a matrix

Cost: 2 | Solved: 79

Memory limit: 256 MBs

Time limit: 1 s

Input: input.txt

Output: output.txt

Task:

You are given a matrix. Write its transpose.

To transpose a matrix means to swap its rows and columns.

Input:

The first line contains two natural numbers n and m ($n \leq 1000$, $m \leq 100$) – the quantity of rows and columns of the matrix.

The next n lines contain m numbers – the values of matrix elements ($1 \leq \text{element}_{i,j} \leq 10^9$).

Output:

Transpose the matrix and then output it.

Example:

Input	Output
3 3	1 4 7
1 2 3	2 5 8
4 5 6	3 6 9
7 8 9	

2 3	1 4
1 2 3	2 5
4 5 6	3 6