

Mirror Array

Input file: standard input
Output file: standard output
Time limit: 1 second
Memory limit: 256 megabytes

Given two numbers N , M and a 2D array of size $N * M$. Print the **inverted** array that appeared in the mirror.

Input

First line contains two numbers N , M ($1 \leq N, M \leq 100$) N donates number of rows and M donates number of columns.

Each of the next N lines will contain M numbers ($1 \leq A_{i,j} \leq 10^9$).

Output

Print the **inverted** array.

Example

standard input	standard output
3 3 2 3 5 7 9 20 35 1 12	5 3 2 20 9 7 12 1 35

Note

