

Questions of Advanced-Programming course at Shahid-Beheshti-University

Matrix Questions

by

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this matrix

Write a program that first takes two numbers that are the number of rows and columns of a matrix from the user, then takes the matrix from the user in the next lines and prints the column that has the least number of 0. (if there were several columns, print the previous column)

matrix rotation

Write a program that receives an $m \times n$ matrix and rotates it in the desired direction and given times and prints it.

Entrance

In the first line, 2 numbers m and n , which are the dimensions of the array.

In the next n lines, the rows of the matrix are entered.

Then a word is entered to specify the direction of rotation, which can be one of two words **Clockwise** and **Counterclockwise**.

In the next line, the number of cycles is specified, which is a positive integer.

Output

Print the output matrix with a space between the elements of a row.