Jutge.org

The Virtual Learning Environment for Computer Programming

Number of different columns

X28503_en

Write a program that given an integer matrix computes the number of different columns. Two columns of a matrix are different when they have different values on some position. The program must document, code and use at least the following two functions/actions:

- 1. An action (or function) to read a matrix from the input.
- 2. A function that given a matrix and two valid column indexes points out whether the columns referenced by the indexes are the same (position by position the two columns have the same values).

Exam score: 3.500000 **Automatic part:** 40.000000%

Input

The input is a sequence of cases. Each case consists of two integer numbers greater than zero m and n, which respectively denote the number of rows and columns, followed by a $m \times n$ matrix of integer numbers.

Output

For each case, a line with the number of different columns the matrix has.

Sample input

2 7 1 0 1 0 0 0 1 0 1 1 1 0 1 1 1 5 1 0 0 1 2 3 10 1 0 0 2 1 2 0 0 1 2

Sample output

Problem information

1 1 1 0 1 0 1 0 1 2 0 1 0 0 0 0 1 0 0 1

Author: pro1

Generation: 2019-12-12 12:09:19

© Jutge.org, 2006–2019. https://jutge.org