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**Number of different rows****X63635\_en**

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Write a program that given an integer matrix computes the number of different rows. Two rows 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 rows indexes points out whether the rows referenced by the indexes are the same (position by position the two rows 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 rows the matrix has.

**Sample input**

```
6 3
1 0 0
0 1 0
1 0 0
1 1 0
0 1 0
0 1 1

5 1
3
2
1
2
3

7 2
1 1
0 0
1 2
2 1
0 0
2 1
1 1
```

**Sample output**

```
4
3
4
```

**Problem information**

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