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## Fields

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A rectangular field of size  $m \times n$  contains  $mn$  square areas. Some of the areas are occupied by a determined growing (tomatoes, carrots, etc.) that is identified by a natural number strictly positive. It is known that growings are grouped in different disjointed rectangles and that a growing always is separated of another one by areas without growings, identify by the value 0.

Write a program that reads fields and prints the number of rectangular growings.

### Input

Input consists in a sequence of fields. For each field, it is given two natural numbers  $m$  and  $n$  with  $m \geq 1$  and  $n \geq 1$  that represent the size of the field. Then, it is given  $m$  rows, each one with  $n$  natural numbers that represent the growing of the area. The fields follow the hypotheses described previously.

### Output

For each field of the input, print in a line the number of rectangular growings.

#### Sample input

```
6 10
1 1 1 0 3 3 3 0 2 2
1 1 1 0 3 3 3 0 2 2
0 0 0 0 3 3 3 0 0 0
2 2 0 0 3 3 3 0 4 4
0 0 0 0 0 0 0 0 0 0
1 1 1 1 1 0 4 4 4 0

3 3
0 0 0
0 9 0
0 0 0
```

#### Sample output

```
7
1
```

### Problem information

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