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The Virtual Learning Environment for Computer Programming

## Subsquares in a matrix

P77893_en

Given an $n \times m$ matrix of numbers between 1 and 9 , compute how many subsquares $3 \times 3$ it has with all the numbers between 1 and 9 .

## Input

Input consists of several cases. Every case begins with $n$ and $m$, followed by an $n \times m$ matrix of integer numbers between 1 and 9 . Suppose that $n$ and $m$ are between 3 and 100 .

## Output

For every matrix, print the number of subsquares $3 \times 3$ that have all the numbers between 1 and 9.

| Sample input | Sample output |
| :---: | :---: |
| 34 |  |
| 1234 | 0 |
| 5678 | 4 |
| 9848 |  |
| 3 |  |
| 111 |  |
| 111 |  |
| 111 |  |
| 4 |  |
| 1237 |  |
| 4564 |  |
| 7891 |  |
| 1237 |  |

## Problem information

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