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The Virtual Learning Environment for Computer Programming

## Word search

Olimpiada Informática Española — Final 2007 (2007)
Your task is to write a program, that for each word search given, prints how many times appears the word "OIE" inside of it, horizontally, verticaly, or in diagonal. (In total, you must check 8 different senses.)

## Input

The input consists of a series of cases. Each case consists of two numbers $r$ and $c$, both of them between 1 and 100, followed by $r$ rows with $c$ uppercase letters each one.

## Output

For each word search, your program must print how many times appears "OIE" inside of it.

| Sample input | Sample output |
| :--- | :--- |
| 33 | 3 |
| OIE | 4 |
| IIX | 8 |
| EXE | 3 |
| 1 10 |  |
| EIOIEIOEIO |  |
| 5 5 |  |
| EAEAE |  |
| AIIIA |  |
| EIOIE |  |
| AIIIA |  |
| EAEAE |  |
| 72 |  |
| OX |  |
| IO |  |
| EX |  |
| II |  |
| OX |  |
| IE |  |
| EX |  |
| 11 |  |
| E |  |

## Problem information

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