## Jutge.org

The Virtual Learning Environment for Computer Programming

## Picking up coins

Cinquè Concurs de Programació de la FME (2008-04-29)
In a $n \times m$ board there are golden coins and some traps. There are also some pieces: bishops and knights, which move according to chess rules. The pieces can move as many times as you wish, and can cross any square that does not have a trap, even if occupied by another piece. Coins dissapear when some piece picks them up.
Write a program that prints the total number of coins that can be picked up.

## Input

Input includes several cases. Each case consists of a line with $n$ and $m$, followed by $n$ lines with $m$ characteres each one. A ' $B$ ' indicates a bishop. A ' $K$ ' indicates a knight. A ' $T$ ' indicates a trap. A dot indicates an empty square. A digit indicates a number of golden coins. Both $n$ and $m$ are between 1 and 200 .

## Output

For each case, print a line with the number of golden coins that can be picked up.

## Sample input

57
8.T...T
.B1..T.
T...T..
...4.2.
..T. 9 .
76
.K.T. .
..... 3
9..T.
..8.T.
.....
...1.K
.K....
11
.
110
99K9999B99

33
KB.
0.7

KB.

## Problem information

Author: Salvador Roura
Translator: Carlos Molina

Generation : 2024-05-02 22:14:43
© Jutge.org, 2006-2024.
https://jutge.org

