
Picking up coins**P69865_en**

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 disappear 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 characters 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 1

```
5 7
8.T...T
.B1..T.
T...T..
...4.2.
..T..9.

7 6
.K.T..
.....3
9...T..
..8.T.
.....
...1.K
.K.....

1 1
.

1 10
99K9999B99
```

```
3 3
KB.
0.7
KB.
```

Sample output 1

```
14
18
0
0
7

14
18
0
0
7

14
```

Problem information

Author: Salvador Roura

Translator: Carlos Molina

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