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The Virtual Learning Environment for Computer Programming

Picking up coins

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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 output

Sample input	
5 7	
8.TT	
.B1T.	
TT	
4.2.	
T9.	
7 6	
.K.T	
3	
9T	
_	

18 0 0

..8.T. ...1.K .K... 1 1 1 10 99K9999B99 3 3 KB. 0.7 KB.

Problem information

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