# Problem B
# Chessboard in FEN

**Input:** standard input
**Output:** standard output
**Time Limit:** 2 seconds
**Memory Limit:** 32 MB

In the **FEN** (Forsyth-Edwards Notation), a chessboard is described as follows:

- The Board-Content is specified starting with the top row and ending with the bottom row.
- Character / is used to separate data of adjacent rows.
- Each row is specified from left to right.
- White pieces are identified by uppercase piece letters: PNBRQK.
- Black pieces are identified by lowercase piece letters: pnbrqk.
- Empty squares are represented by the numbers one through eight.
- A number used represents the count of contiguous empty squares along a row.
- Each row's sum of numbers and characters must equal 8.

As for example:
`5k1r/2q3p1/p3p2p/1B3p1Q/n4P2/6P1/bbP2N1P/1K1RR3`, is the **FEN** notation description of the following chessboard:
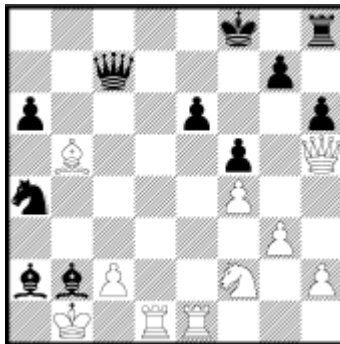


The chessboard of the beginning of a chess game is described in **FEN** as:

`rnbqkbnr/pppppppp/8/8/8/8/PPPPPPPP/RNBQKBNR`

Your task is simple: given a chessboard description in a **FEN** notation you are asked to compute the number of unoccupied squares on the board which are not attacked by any piece.

## Input

Input is a sequence of lines, each line containing a FEN description of a chessboard. Note that the description does not necessarily give a legal chess position. Input lines do not contain white space.

# Output

For each line of input, output one line containing an integer which gives the number of unoccupied squares which are not attacked.

# Sample Input

```
5k1r/2q3p1/p3p2p/1B3p1Q/n4P2/6P1/bbP2N1P/1K1RR3
rnbqkbnr/pppppppp/8/8/8/8/PPPPPPPP/RNBQKBNR
```

# Sample Output

```
3
16
```

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**(Math Lovers' Contest, Source: University of Alberta Local Contest)**