

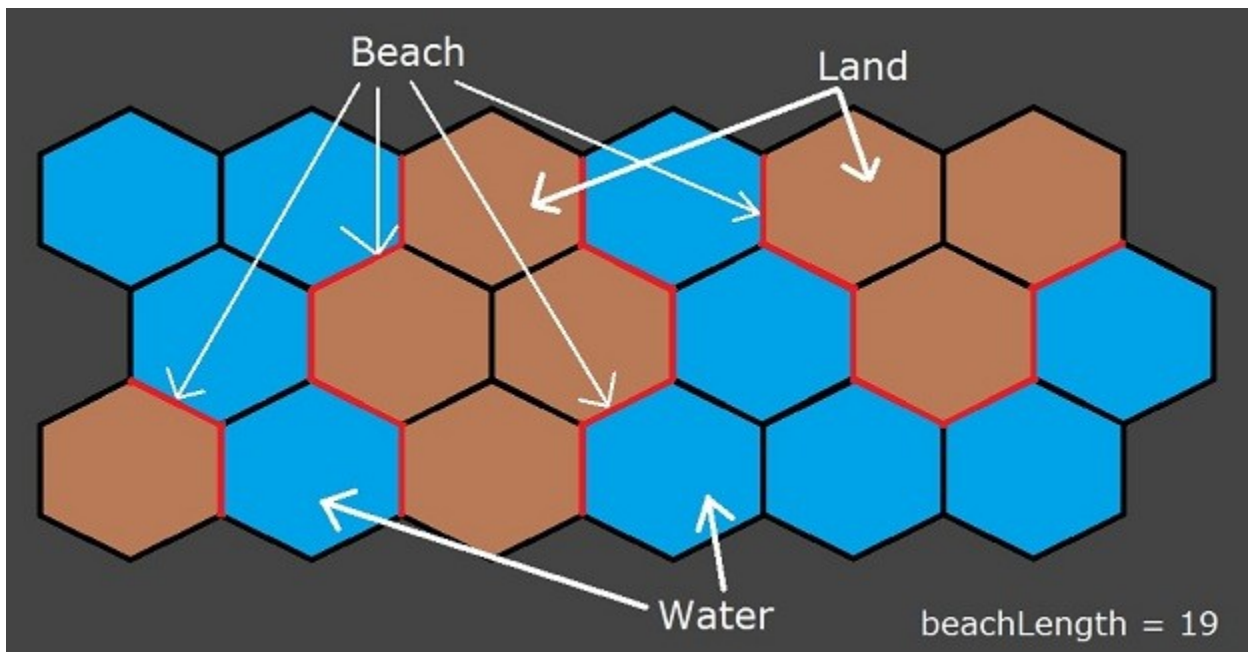
Beach Length

Problem Statement

The king is trying to find new ways to generate revenue, and he is currently exploring tourism as one potential avenue. The **kingdom** is a group of islands, and the amount of revenue that can be generated depends on the combined total length of beaches on all the islands. You are given the map of **kingdom**, consisting of '.' or '#' characters. '#' represents a land mass, whereas '.' represents water. **kingdom**[i][j] represents a regular-hexagon shaped area with each side of unit length. Since the cells are hexagonal in shape, the odd-numbered rows (0-based) are 'shifted' towards the right. A beach is a segment which has water on one side, and land on the other.

An example map and the corresponding image are given below to illustrate. The beaches are marked in red.

```
. . # . ##  
. ## . # .  
# . # . . .
```



Return the combined total length of beaches on all the islands.

Constraints

- kingdom** will contain between 1 and 50 elements, inclusive.
- Each element of **kingdom** will contain between 1 and 50 characters, inclusive.
- Each element of **kingdom** will contain the same number of characters.
- Each character in **kingdom** will be either '.' or '#'.

Input

There are multiple inputs. For each test case, the map of the kingdom is given. Test cases are separated by a blank line. Input ends with EOF.

Output

For each test case, return the combined total length of beaches on all the islands.

Sample I/O

Input	Output
.#...#..	4
..#.#.#	19
.##.#.	15
#.#...	24
#...#.....	
##..#...#.	
....#.	
.#....	
..#...#	
####...	