



# Tries: Contacts ☆

Problem

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We're going to make our own Contacts application! The application must perform two types of operations:

1. `add name`, where *name* is a string denoting a contact name. This must store *name* as a new contact in the application.
2. `find partial`, where *partial* is a string denoting a partial name to search the application for. It must count the number of contacts starting with *partial* and print the count on a new line.

Given *n* sequential add and find operations, perform each operation in order.

## Input Format

The first line contains a single integer, *n*, denoting the number of operations to perform.

Each line *i* of the *n* subsequent lines contains an operation in one of the two forms defined above.

## Constraints

- $1 \leq n \leq 10^5$
- $1 \leq |name| \leq 21$
- $1 \leq |partial| \leq 21$
- It is guaranteed that *name* and *partial* contain lowercase English letters only.
- The input doesn't have any duplicate *name* for the *add* operation.

## Output Format

For each `find partial` operation, print the number of contact names starting with *partial* on a new line.

## Sample Input

```
4
add hack
add hackerrank
find hac
find hak
```

## Sample Output



2  
0

Explanation

We perform the following sequence of operations:

- 1. Add a contact named hack.
- 2. Add a contact named hackerank.
- 3. Find and print the number of contact names beginning with hac. There are currently two contact names in the application and both of them start with hac, so we print **2** on a new line.
- 4. Find and print the number of contact names beginning with hak. There are currently two contact names in the application but neither of them start with hak, so we print **0** on a new line.

Java 8

1

Line: 1 Col: 1

[Upload Code as File](#) ☐ [Test against custom input](#)

Run Code

Submit Code

Congratulations

You solved this challenge. Would you like to challenge your friends?



Next Challenge

Test case 0

Compiler Message

Success

