# **Contacts**

We are going to make our own contacts application. You are given the number of operations to perform, \$N\$. In any contacts application, two basic operations are *add* and *find*. The input will be one of the following:

- 1. add name
- 2. find partial

For the *find* operation, you will have to print the number of contacts who have a name starting with that *partial* name.

### **Input Format**

The first line contains the integer \$N\$, the number of operations to be performed.

The next \$N\$ lines contains one of the two operations defined above.

#### **Constraints**

\$1 \le N \le 10^5\$ \$1\le Length(name) \le 21\$ \$1\le Length(partial) \le 21\$

The entire input consists of lowercase characters only.

### **Output Format**

For each operation of type find partial, print the number of contacts starting with the string partial.

## **Sample Input**

4 add hack add hackerrank find hac find hak

#### **Sample Output**

2

#### **Explanation**

The names *hack* and *hackerrank* both start with the string *hac*. We have no name starting with the string *hak*.