

Search III

(dictionary.cpp/c)

Time Limit : 2 sec , Memory Limit : 131072 KB

Your task is to write a program of a simple *dictionary* which implements the following instructions:

- **insert *str***: insert a string *str* in to the dictionary
- **find *str***: if the dictionary contains *str*, then print 'yes', otherwise print 'no'

Input (dictionary.in)

In the first line n , the number of instructions is given. In the following n lines, n instructions are given in the above mentioned format.

Output (dictionary.out)

Print yes or no for each find instruction in a line.

Constraints

- A string consists of 'A', 'C', 'G', or 'T'
- $1 \leq \text{length of a string} \leq 12$
- $n \leq 1000000$

Sample Input 1

```
5
insert A
insert T
insert C
find G
find A
```

Sample Output 1

```
no
yes
```

Sample Input 2

```
13
insert AAA
insert AAC
insert AGA
insert AGG
insert TTT
find AAA
find CCC
find CCC
insert CCC
find CCC
insert T
find TTT
find T
```

Sample Output 2

```
yes
no
no
yes
yes
yes
```