

Description	My Submissions	Hints/Editorial	AC Submissions	My Notes (0)
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# Indexed Set



? Ask Doubt

Time-Limit: 1 sec    Score: 0.00/100    Difficulty :

Memory: 256 MB    Accepted Submissions: 100

## Description

You are given  $Q$  queries and have to perform the following operations:

1. add  $x$  - if  $x$  doesn't present in the set, add element  $x$  in the set. Otherwise do nothing.
2. remove  $x$  - remove element  $x$  from the set, if it exists. Otherwise do nothing.
3. find  $x$  - find the value at position  $x$  (0-indexing) if it exists. Otherwise print -1.
4. findpos  $x$  - find the position (0-indexing) of the element with value  $x$  if it exists. Otherwise, find the position that the element would have in the set

The set is ordered in the non-decreasing order of the elements.

## Input Format

The first line of the input contains one integer  $T$  - the number of test cases. Then  $T$  test cases follow.  
The first line of each test case contains one integer  $Q$  - the number of queries.  
Each of the next  $Q$  lines contains queries.

## Output Format

For each test case, print the required queries.

## Constraints

$$1 \leq T \leq 10^5$$

$$1 \leq Q \leq 10^5$$

$$1 \leq x \leq 10^5$$

It is guaranteed that the sum of  $Q$  over all test cases does not exceed  $10^6$ .

## Sample Input 1

Copy

```
1
6
add 4
add 1
add 6
find 1
findpos 7
findpos 6
```

C++14[GCC] ▾

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