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## STL unordered set

Implement different operations on an unordered set s.

#### Input:

The first line of input contains an integer  ${\bf T}$  denoting the no of test cases . Then T test cases follow. The first line of input contains an integer  ${\bf Q}$  denoting the no of queries . Then in the next line are  ${\bf Q}$  space separated queries .

A query can be of four types

- 1. a x (inserts an element x to the unordered set s)
- 2. b x (erases an element x from the unordered set s)
- 3. c x (prints 1 if the element x is present in the set else print -1)
- 4. d (prints the size of the unordered set s)

#### **Output:**

The output for each test case will be space separated integers denoting the results of each query .

#### **Constraints:**

1<=T<=100 1<=Q<=100

# Example(To be used only for only expected output):

## Input

2 5 5 a 1 a 2 a 3 b 2 d 4 a 1 a 5 d c 2

## **Output**

2 2 -1





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## **Explanation:**

#### For the first test case

There are five queries. Queries are performed in this order

- 1. a 1 {inserts 1 to set now set has {1} }
- 2. a 2 {inserts 2 to set now set has {1,2} }
- 3. a 3 {inserts 3 to set now set has {1,2,3} }
- 4. b 2 {removes 2 from the set }
- 5. d {prints the size of the unordered set ie 2}

#### For the second test case

There are four queries. Queries are performed in this order

- 1. a 1 {inserts 1 to set now set has {1} }
- 2. a 5 {inserts 5 to set now set has {1,5} }
- 3. d {prints the size of the set ie 2}
- 4. c 2 {since 2 is not present in the set prints -1}