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# STL set

Implement different operations on a 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 set s)
- 2. b (prints the contents of the set s)
- 3. c x (erases an element x from the set s)
- 4. d x (prints 1 if the element x is present in the set else print -1)
- 5. e (prints the size of the 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:**

## Input

2 6 a 1 a 2 a 3 b c 2 b 5 a 1 a 5 e d 5 d 2

## **Output**

12313





## **Explanation:**

#### For the first test case

There are six queries. Queries are performed in this order

- 1. a 1 { insert 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 {prints the set contents ie 1,2,3}
- 5. c 2 {removes 2 from the set }
- 6. b {prints the set contents ie 1,3}

#### For the second 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 11 {inserts 11 to set now set has {1,11} }
- 3. e {prints the size of the set ie 2}
- 4. d 5 {since five is present prints 1}
- 5. d 2 {since 2 is not present in the set prints -1}