

[Description](#)[My Submissions](#)[Hints/Editorial](#)[AC Submissions](#)[My Notes \(0\)](#)

Support Queries I

?

Ask Doubt

Time-Limit: 1 sec

Score: 1.00/100

Difficulty :

Memory: 256 MB

Accepted Submissions: 100

Relevant For:

AZ-201

Description

Design a Data Structure which can support the following queries:

- 1 x: Add x in structure
- 2 x: Remove x from the structure if present in the structure. If x doesn't present in the structure, do nothing. If there are multiple occurrences of x, delete only one occurrence of x.
- 3 ?: Print the minimum number present in the structure. If the structure is empty, print -1.
- 4 ?: Print the maximum number present in the structure. If the structure is empty, print -1.
- 5 ?: Print the sum of all numbers present in the structure. If the structure is empty, print 0.

Initially, the structure is empty.

Input Format

The first line of input contains Q - the number of queries.
Next, Q lines contain queries of the format specified in the statement.

Output Format

For queries of type 3, 4 and 5, print the answer in a new line.

Constraints

$1 \leq Q \leq 10^5$

$0 \leq x \leq 10^9$

Sample Input 1

Copy

```
18
1 5
1 4
1 4
3 ?
4 ?
5 ?
2 4
3 ?
4 ?
5 ?
2 4
3 ?
```

C++14[GCC] ▾

1

Typesetting math: 100%

Submit