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[All Contests](#) > 
 [Final Exam](#) | 
 [Basic Data Structure](#) | 
 [Batch 06](#) > 
 Give Current Min

# Give Current Min

Problem

Submissions

Leaderboard

Discussions

## Problem Statement

You will be given a list  $A$  of size  $N$ . Then you will be given  $Q$  queries, for each query there will be some commands. Commands are given below -

1.  $0\ X$  -> Insert  $X$  into the list. Then print the current minimum value from the list.
2.  $1$  -> Print the current minimum value from the list.
3.  $2$  -> Delete the current minimum value from the list and print the minimum value from the list after deletion.

**Note:** If the list is empty and you can't print anything then you should print "Empty".

## Input Format

- First line will contain  $N$ .
- Second line will contain the list  $A$  of size  $N$ .
- Third line will contain  $Q$ .
- Next  $Q$  lines will contain the commands.

## Constraints

1.  $1 \leq N + Q \leq 10^5$
2.  $-10^9 \leq A_i \leq 10^9$  ; Here  $A_i$  means the values of the list  $A$ .
3.  $-10^9 \leq X \leq 10^9$

## Output Format

- For each command, print as asked from the list.

## Sample Input 0

```

4
10 -10 -5 -20
10
1
2
2
2
2
0 10
1
2
    
```

0 20  
1

### Sample Output 0

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-20  
-10  
-5  
10  
Empty  
10  
10  
Empty  
20  
20

### Sample Input 1

6  
45 -30 83 -99 19 75  
9  
1  
2  
2  
0 32  
0 6  
2  
2  
0 -86  
1

### Sample Output 1

-99  
-30  
19  
19  
6  
19  
32  
-86  
-86

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Submissions: [114](#)

Max Score: 20

Difficulty: Easy

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C++20



```
1 #include <bits/stdc++.h>
2
3 using namespace std;
4
5
6
7 int main()
8 {
```

```
10 // Write your code here
11 return 0;
12 }
13
```

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Line: 1 Col: 1

 [Upload Code as File](#) ☐ **Test against custom input**

Run Code

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