

Queries

Problem

Submissions

Leaderboard

Discussions

Problem Statement

You have a singly linked list which is **empty** initially. Then you will be given **Q** queries. In each query you will be given two values **X** and **V**.

- If **X** is **0** that means you will insert the value **V** to the head of the linked list.
- If **X** is **1** then you will insert the value **V** to the tail of the linked list.
- If **X** is **2** then you will delete the value **V**th index of the linked list. Assume that index starts from 0. If the index is invalid, then you shouldn't perform the deletion.
- After each query you need to print the linked list.

Note: You must use singly linked list, otherwise you will not get marks.

Input Format

- First line will contain **Q**.
- Next **Q** lines will contain **X** and **V**.

Constraints

1. $1 \leq Q \leq 1000$;
2. $0 \leq X \leq 2$;
3. $0 \leq V \leq 10^9$

Output Format

- For each query output the updated linked list.

Sample Input 0

```

4
0 10
1 20
1 30
0 40

```

Sample Output 0

```

10
10 20

```

```
10 20 30
40 10 20 30
```

Sample Input 1

```
11
0 10
2 5
1 20
1 30
0 40
2 0
0 50
2 2
1 60
2 3
2 3
```

Sample Output 1

```
10
10
10 20
10 20 30
40 10 20 30
10 20 30
50 10 20 30
50 10 30
50 10 30 60
50 10 30
50 10 30
```

Sample Input 2

```
10
1 4
2 1
0 9
0 10
2 2
1 5
2 0
2 1
2 5
2 2
```

Sample Output 2

```
4
4
9 4
10 9 4
10 9
10 9 5
9 5
9
9
9
```

[f](#) [t](#) [in](#)

Submissions: [173](#)

Max Score: 20

Difficulty: Easy

Rate This Challenge:



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C++20



```
1 #include <bits/stdc++.h>
2
3 using namespace std;
4
5
6
7 int main()
8 {
9     // Write your code here
10
11     return 0;
12 }
13
```

Line: 1 Col: 1



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☐

Test against custom input

Run Code

Submit Code