

# 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
```



Submissions: [486](#)

Max Score: 20

Difficulty: Easy

Rate This Challenge:



[More](#)

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

 [Upload Code as File](#)

☐ Test against custom input

Run Code

Submit Code

---

[Interview Prep](#) | [Blog](#) | [Scoring](#) | [Environment](#) | [FAQ](#) | [About Us](#) | [Support](#) | [Careers](#) | [Terms Of Service](#) | [Privacy Policy](#) |