## Lists

### HackerRank

Consider a list (list = []). You can perform the following commands:

- 1. insert i e: Insert integer e at position i.
- 2. print: Print the list.
- 3. **remove** e : Delete the first occurrence of integer *e*.
- 4. append e: Insert integer *e* at the end of the list.
- 5. sort : Sort the list.
- 6. pop: Pop the last element from the list.
- 7. reverse : Reverse the list.

Initialize your list and read in the value of n followed by n lines of commands where each command will be of the 7 types listed above. Iterate through each command in order and perform the corresponding operation on your list.

# Example N = 4 append 1

append 2 insert 3 1 print

- **append 1**: Append 1 to the list, arr = [1].
- append 2: Append 2 to the list, arr = [1, 2].
- insert 3 1: Insert 3 at index 1, arr = [1, 3, 2].
- **print**: Print the array. Output:

```
[1, 3, 2]
```

#### **Input Format**

The first line contains an integer, n, denoting the number of commands. Each line i of the n subsequent lines contains one of the commands described above.

#### Constraints

• The elements added to the list must be *integers*.

#### **Output Format**

For each command of type print, print the list on a new line.

#### Sample Input 0

12 insert 0 5 insert 1 10 print v remove 6 append 9 append 1 sort v print pop reverse print

#### Sample Output 0

[6, 5, 10] [1, 5, 9, 10] [9, 5, 1]