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 1 3
print

- append 1: Append 1 to the list, $arr = [1]$.
- append 2: Append 2 to the list, $arr = [1, 2]$.
- insert 1 3: 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
insert 0 6
print
remove 6
append 9
append 1
sort
print
pop
reverse
print
```

Sample Output 0

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