



Lists ★

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Problem

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Tutorial

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]

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Language

Python 3



```
1  if __name__ == '__main__':  
2      N = int(input())  
3      lst = []  
4      context = {}  
5      context["lst"] = lst  
6      for _ in range(N):  
7          method_param = input().split()  
8          code = ""  
9          method = method_param[0]  
10         context["method"] = method  
11         context["method_param"] = method_param  
12         if method == "print":  
13             code = "print(lst)"  
14         if method in {"sort", "pop", "reverse"}:  
15             code = f"lst.{method}()"   
16         if method in {"append", "remove"}:  
17             code = f"lst.{method}(int(method_param[1]))"  
18         if method == "insert":  
19             code = f"lst.{method}(int(method_param[1]), int(method_param[2]))"  
20   
21         exec(code, context)  
22   
23   
24
```

Line: 24 Col: 1

Upload Code as File

☐ Test against custom input

Run Code

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Running Testcases

Test case 0

✔ Test case 1 