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.

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```
if __name__ == '__main__':
    N = int(input())
    m=list()

    for i in range(N):
        method=input().split()
        if method[0]=="insert":
            m.insert(int(method[1]), int(method[2]))
        elif method[0]=="print":
            print(m)
        elif method[0]== "remove":
            m.remove(int(method[1]))
        elif method[0]== "append":
            m.append(int(method[1]))
        elif method[0]== "sort":
            m = sorted(m)
        elif method[0]== "pop":
            m.pop()
        elif method[0]== "reverse":
            m.reverse()


```

Line: 6 Col: 30

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Test against custom input