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STL list

Implement different operation on **List A** i.e. adding an element in front and end, removing an element from the front and end, sorting elements, reversing the list and printing the list.

Input:

The first line of input contains an integer **T** denoting the no of test cases. For each test case, the first line of input contains an integer **Q** denoting the no of queries. Then in the next line are **Q** space separated queries.

A query can be of eight types

- 1 x (Adds an element x to the list A at the end and print list A)
- 2 (Sorts the list A in ascending order and print list A)
- 3 (Reverses the list A and print list A)
- 4 (Prints the size of the list A)
- 5 (Prints space-separated values of the list)
- 6 (Remove an element from the back of the list and print list A)
- 7(Remove an element from the front of the list and print list A)
- 8 x (Adds element x in front of the list and print list A)

Output:

The output for each test case will be according to the query that is performed and if the list is empty output is **-1**.

Constraints:

1<=T<=100

1<=Q<=100





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Example:

Input:

8

15

8 1

3

4

5

6

16

7

Output:

5

15

5 1

2

5 1

5

56 6