Problem A

In this problem, you need to implement a queue using a singly linked list.

You must use the template named "*template_a.cpp"* stored in the template folder.

Input:
First line: n, a number. (1<=n<=10^6)
Next n lines: v, an integer (-1000<=v <=1000). Enqueue v to the queue.

Output:
n lines, each containing the values obtained by dequeuing the queue.

Sample Case:

Input	Output
5 1 2 3 4 5 6	1 2 3 4 5 6

Problem B

In this problem, you need to sort the items in a queue in ascending order.

You must use the template named "*template_b.cpp"* stored in the template folder.

Input:
First line: n, a number (1<=n<=10^6).
Next n lines: v_i, a integer (-1000<=v <=1000).

Output:
Each line will contain the values obtained by dequeuing the sorted queue.

Sample Case:

Input	Output
5 1 3 2 5 4	1 2 3 4 5

Problem C

In this problem, you will have to sort given numbers.

Sample Case:

Input:
First line: n, a number (1<=n<=10^3).
Next n lines: v_i, a number (-1.0 < v_i < 1.0). Here the maximum precision for a given number will be upto four digits.

Output:
Each line will contain the values in ascending order.

Input	Output
3 0.4458 -0.6651 0.2222	-0.6651 0.2222 0.4458
3 0.919 -0.4651 0.4534	-0.4651 0.4534 0.919

Problem D

In this problem, you will be given n numbers. There is a window of size k which is moving from left to right. You will have to report the sum of the windows.
Input:
First line: n, a number (1<=n<=10^6).
Second line: k, a number (1<=k<=n).
Next n lines: v_i, a number (-1000<= v_i <=1000).

Output:
Each line will contain the sum of the windows from left to right.

Sample Case:

Input	Output
5 2 1 2 3 4 5	3 5 7 9
Explanation: Here the window size is 2. The leftmost window contains 1 and 2. The sum is 3. Hence, 3 goes to output. In the next step, the window shifts to right and the items are 2 and 3. The sum is 5.	