

1. Implement Template based Queue using a static circular array. Make the array size 10.
2. Implement Template based Queue using a dynamic circular array.
3. Implement Template based Queue using a singly linked-list.
4. Write a program that takes n as input and generates binary representation of all numbers from 1 to n using a queue. You can use the builtin STL Queue for this problem.

Sample Input	Sample Output
6	1 -> 1 2 -> 10 3 -> 11 4 -> 100 5 -> 101 6 -> 110