**GenerateBinaryNumber**

**Q:** Given a decimal number, n generate binary number of 1 to n.

**Test Cases:**

**Input:** 5

**Output:** 1 = 1

2 = 10

3 = 11

4 = 100

5 = 101

**Input:** 8

**Output:** 1 = 1

2 = 10

3 = 11

4 = 100

5 = 101

6 = 110

7 = 111

8 = 1000

**Algorithm:**

Step-1: Create a string queue and add 1 in the queue. That is the binary equivalent for 1.

Step-2: In the while loop which will run n times remove the front element and print it

Step-3: Append 0 and 1 to the recently removed element from the queue and add both these numbers back to the queue

Step-4: Goto step-2

**Example:**

Input: 3

* Add 1 to the queue
* Remove it from the queue and print it.
* Store the removed element into 2 strings and append 0 and 1 to the new strings.
* So the new string will be 10 and 11 and ad them to the queue.
* Decreament n to n=2.
* Remove 10 again and print it and repeat the above steps again.
* Decreament n to n=1
* Remove 11 from the queue and print it and repeat the above steps for 11 too.
* Decreament n to 0 and exit the while loop.