data - structure. public class Main 6- { public static void main(String[] args) { Queue<Integer> qu = new LinkedList<>(); // Queue<Integer> qu = new ArrayDeque<>(); // Queue<Integer> qu = new PriorityQueue<>(); insert 2 qu.add(10); qu.add(20); qu.add(30); remove. qu.add(40); n.out.println(qu.peek()); qu.remove(); qu.remove(); n.out.println(qu.peek()); System.out.println(qu.size()); we need other thing

Dueue

```
add
remove
get
size
travers
```

```
public class Main
6 - {
        public static void main(String[] args) {
            Queue<Integer> qu = new LinkedList<>();
          // Queue<Integer> qu = new ArrayDeque<>();
          // Queue<Integer> qu = new PriorityQueue<>();
           qu.add(10);
           qu.add(20);
           qu.add(30);
           qu.add(40);
                 m.out.println(qu.peek());
          //remove
           qu.remove();
           qu.remove();
          //get element -> Front
           System.out.println(qu.peek());
            System.out.println(qu.size());
27 }
```

Queue Syntax Learning

- 1. Declare an Empty $queue\ s$.
- 2. Take Single Integer ${\cal T}$ as input.
- 3. For next T Lines format $(case, x \underline{(optional)})$
- ullet case $1.\ Print$ the \underline{size} of the \underline{queue} in a separate line.
- ullet case 2. Remove an element from the queue. If the queue is empty then print -1 in a separate line.
- case 3. Add Integer x to the $queue\ s$.
- case 4. Print an element at the front of the queue. If queue is empty print -1 in a seperate line.

Sample Input 0



9

Sample Output 0



```
1 import java.util.*;
2 public class Solution{
      public static void main(String [] args){
          Scanner scn = new Scanner(System.in);
          int t = scn.nextInt();
          Queue<Integer> qu = new LinkedList<>();
          for(int i = 0; i < t; i++){
              int caseNu = scn.nextInt();
              if(caseNu == 1){
                  System.out.println(qu.size());
              }else if(caseNu == 2){
                  if(qu.size() == 0){
                      System.out.println(-1);
                  }else{
                      qu.remove();
              }else if(caseNu == 3){
                  int x = scn.nextInt();
                  qu.add(x);
              }else if(caseNu == 4){
                  if(qu.size() == 0){
                      System.out.println(-1);
                  }else{
                      System.out.println(qu.peek());
```

4

9

10

11

12

13

14

15

16

17 18

19

20

21

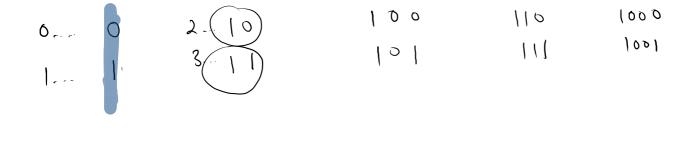
22

23

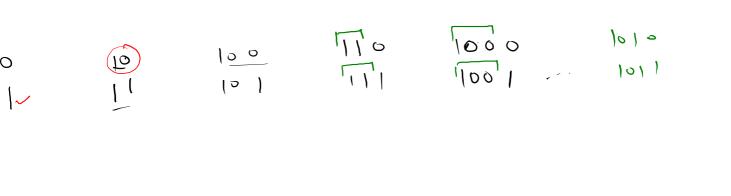
24

25

Binary Number	System			
2'	System Decimal.	\ \ 0	20	
	1 ~	, 1	21	
\	2	12	Ť	
'	3	13	,	
	4		·	
	ک	`	,	
	6	(•	
	7	(
	ζ	(ć	
	9	19	29	



20 100 0 11 21 101 1 22 102



Print Binary

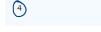
Problem Submissions Leaderboard Discussions

Sprint add 2

Given a number **N**. The task is to generate and print all **binary numbers** with decimal values from **1 to N**. (Note : Use the **queue** for implementation.)

NOTE:- After answering the question, attempt the related question in the linked resource to improve your understanding of this question. Click here

Sample Input 0



Sample Output 0

1 10 11 100



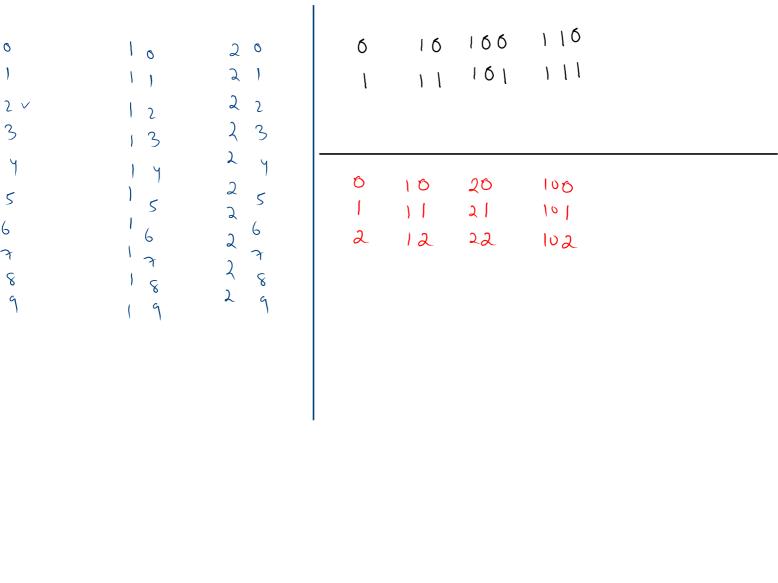
100

```
101 (10 1)1 (000 100)
 1 import java.io.*;
2 import java.util.*;
4 public class Solution {
6
      public static void main(String[] args) {
          Scanner scn = new Scanner(System.in);
 8
          int n =scn.nextInt();
9
          Queue<String> qu = new LinkedList<>();
          qu.add("1");
11
          //rem print add2
          for(int i = 0; i < n; i++){
12
13
              String rem = qu.remove();
              System.out.print(rem + " ");
14
15
              qu.add(rem + "0");
              qu.add(rem + "1");
16
17
18
19
20 }
```

```
FIFO
```

10

```
1 import java.io.*;
 2 import java.util.*;
 4 public class Solution {
                                                                    10
 5
       public static void main(String[] args) {
 7
           Scanner scn = new Scanner(System.in);
          int n =scn.nextInt();
 9
          Queue<String> qu = new LinkedList<>();
10
          qu.add("1");
11
          //rem print add2
12
           for(int i = 0; i < n; i++){
13
               String rem = qu.remove();
                                                             yem=1
14
               System.out.print(rem + " ");
15
               qu.add(rem + "0");
16
               qu.add(rem + "1");
17
18
19
20 }
        2
```



First Negative Integer 2

Given an array A□ of size N and a positive integer K, find the first negative integer for each and every window(contiguous subarray) of size K.

Sample Input 0



Sample Output 0



K=2