	Dueue (FIFO) Airst in, Airst out								
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fron		•	•				•		— Near
Note:	I and	n quei we	re add Temo	eleme	ents eleme	from ents	rear	i Front	t

queue (que)

1 2 3 4 5 6

Pront

Pront

Syntex:

Queue \ Dosta Type > que = new LinkedList \> ();

L, que. add(x); // to add element Jue. remove(); // to remove ele. from front Jue. peek(); // to tell value of front ele. Jane. poll(); // to return the value from front and remove it as yell; as well.

gue . is Empty();

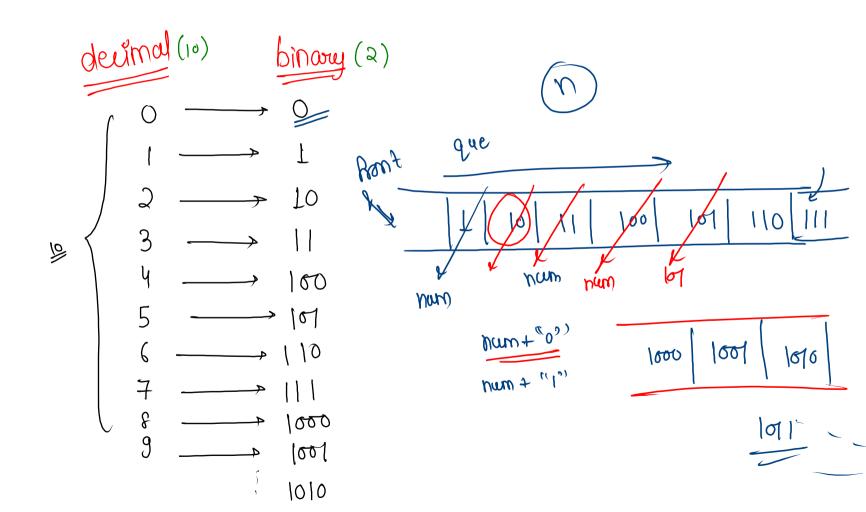
Queue Syntax Learning

```
public static Queue<Integer> que;
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    que = new LinkedList<>();
    int t = scn.nextInt():
    while (t-- > 0) {
        int c = scn.nextInt();
        if (c == 1) {
            printSize();
        } else if (c == 2) {
            removeElement();
                               // from front
        } else if (c == 3) {
            int x = scn.nextInt();
            addElement(x); // from rear
        } else if (c == 4) {
            printFrontElement();
        } else {
            System.out.println("Invalid Input");
```

```
public static void printSize() {
    int s = que.size();
    System.out.println(s);
public static void removeElement() {
    if ( que.size() == 0 ) {
        System.out.println("-1");
    } else {
        que.remove();
}
public static void addElement(int x) {
    que.add(x);
public static void printFrontElement() {
    if ( que.size() == 0 ) {
        System.out.println("-1");
    } else {
        int ans = que.peek();
        System.out.println(ans);
```



Print Binary





```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    Queue<String> que = new LinkedList<>();
    que.add("1");
    for (int i = 1; i <= n; i++) {
        String str = que.poll();
        System.out.print(str + " ");
        String str1 = str + "0";
        que.add(str1);
        String str2 = str + "1";
        que.add(str2);
```

