Check Characterstic

Example

5

-12	23	0	12	-19
0	1	2	3	4

-1	+1	0	+1	-1

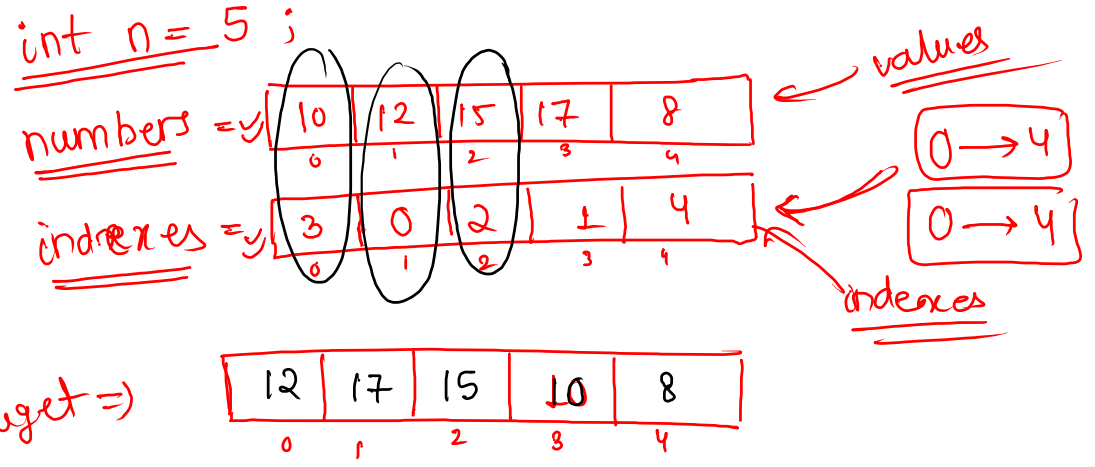
```java
public static void checkCharacter(int[] arr, int n) {
    int[] ans = new int[n];
    for (int i = 0; i < n; i++) {
        if ( arr[i] > 0 ) {
            ans[i] = 1;
        } else if ( arr[i] < 0 ) {
            ans[i] = -1;
        } else {
            ans[i] = 0;
        }
    }

    for (int i = 0; i < n; i++) {
        System.out.print(ans[i] + " ");
    }
}
```

Solve Array

Take n as an integer input representing size of both array.

Take n integer inputs for numbers array and Then take n integer inputs for array indexes where each integer input can be from 0 till numbers.length.

Then create an array of size n and name it target array. From left to right read numbers[i] and index[i], and in the target array at the index index[i], insert the value numbers[i].



```java
public static void main(String[] args) {
    /* Enter your code here. Read input from STDIN. Print out
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();

    int[] num = new int[n];
    for (int i = 0; i < n; i++) {
        num[i] = scn.nextInt();
    }

    int[] idx = new int[n];
    for (int i = 0; i < n; i++) {
        idx[i] = scn.nextInt();
    }

    solveArray(n, num, idx);
}

public static void solveArray(int n, int[] num, int[] idx) {

    int[] target = new int[n];
    for (int i = 0; i < n; i++) {
        int value = num[i];
        int index = idx[i];

        target[index] = value;
    }

    for (int i = 0; i < n; i++ ){
        System.out.print(target[i] + " ");
    }
}
```

target[idx[i]] = num[i];

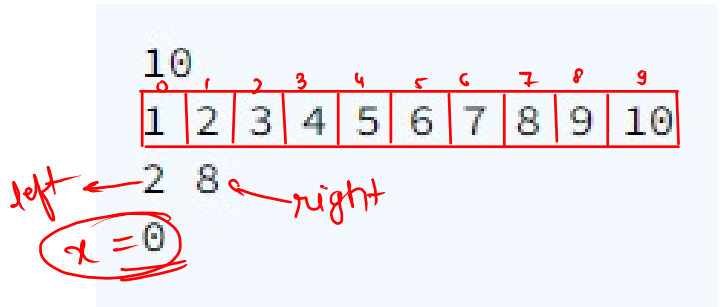
operation = n + n

T.C = O(n)

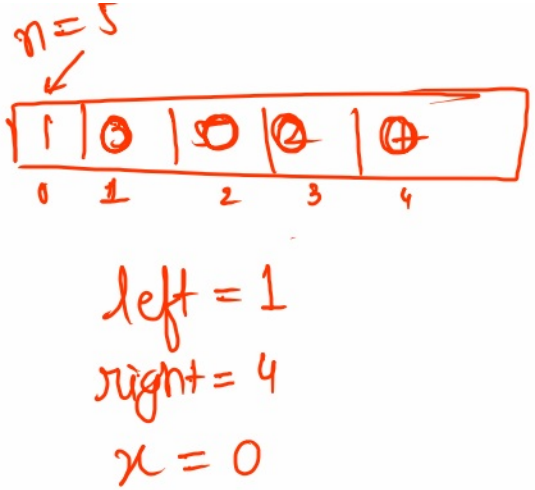
S.C = O(n)

Update query 1

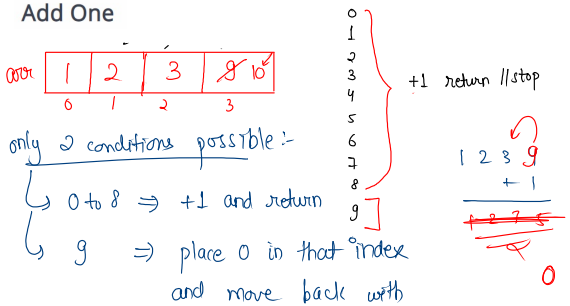
```java
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    int[] arr = new int[n];
    for (int i = 0; i < n; i++) {
        arr[i] = scn.nextInt();
    }
    int left = scn.nextInt();
    int right = scn.nextInt();
    int x = scn.nextInt();

    update(arr, n, left, right, x);
}

public static void update(int[] arr, int n, int left, int right, int x) {
    for (int i = left; i <= right; i++) {
        arr[i] = x;
    }

    for (int i = 0; i < n; i++) {
        System.out.print( arr[i] + " " );
    }
}
```

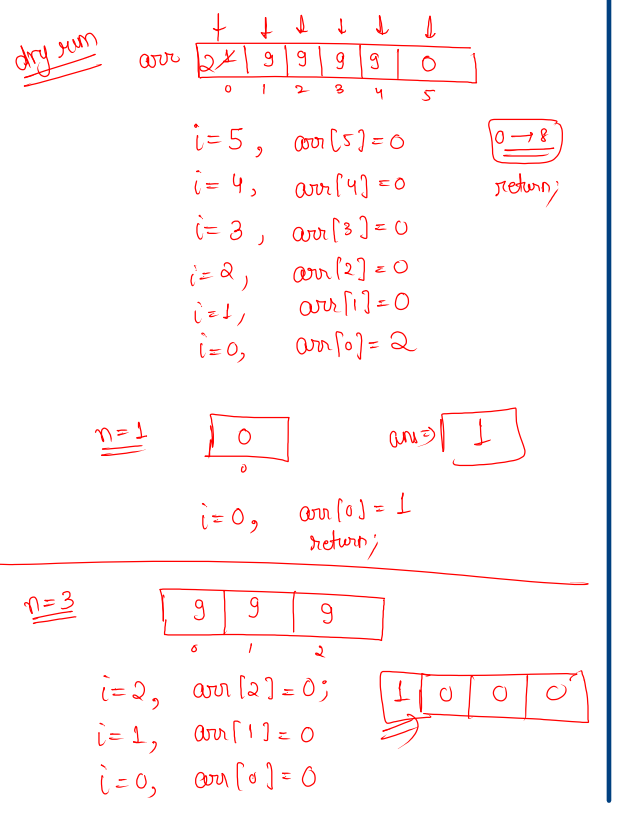


i = 2, arr[2] = 0
i = 3, "
i = 4, "
i = 5, "
i = 6, "
i = 7, "
i = 8, "



Add One






```java
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    int[] arr = new int[n];
    for (int i = 0; i < n; i++) {
        arr[i] = scn.nextInt();
    }

    int[] ans = plusOne(arr, n);
    for (int i = 0; i < ans.length; i++) {
        System.out.print(ans[i] + " ");
    }
}

public static int[] plusOne(int[] arr, int n) {

    for (int i = n - 1; i >= 0; i--) {
        if (arr[i] < 9) {
            arr[i]++;
            return arr;
        }
        arr[i] = 0;
    }
    int[] ans = new int[n + 1];
    ans[0] = 1;
    return ans;
}
```

1) 2) // 0 – 8