## **Check Characterstic**

$$\frac{6}{000} = \frac{3}{5} - \frac{3}{5} = \frac{3}{5} - \frac{1}{5} = \frac{$$

```
psudo code

1) input avoray

2) traverse in avoray from start to end

2.1) check if current value > 0

2.1.1) update current value with +1

2.2) check if current value == 0

2.2.1) update current value with 0
```

2.3) check if coverent value < 0 2.3-1) update coverent value with -1

```
Code
```

```
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 = updateArray(arr, n);
      for (int i = 0; i < n; i++) {
           System.out.print(ans[i] + " ");
 public static int[] updateArray(int[] arr, int n) {
for (int i = 0; i < n; i++) {
    if (arr[i] > 0) {
        arr[i] = 1;
    } else if (arr[i] == 0) {
        arr[i] = 0;
    } else {
        arr[i] = -1;
    }
}
      return arr;
```

## **Update query 1**

$$N = 10$$

$$Ovor = \begin{bmatrix} -4 & 2 & 7 & 8 & 3 & 4 & 5 & 6 & 7 & 8 & 9 \\ -4 & 2 & 7 & 8 & 3 & 4 & -1 & 9 & 3 \\ \end{bmatrix}$$

$$left = 2$$

$$wight = 7$$

$$x = 3$$

psudo code 1) input ouray 2) intput left and right index 3) input X 4) traverse in avoiay from left index to right index 4.1) update the avoient value with X 5) return array



```
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();
    int[] ans = updateQuery(arr, n, left, right, x);
   __for (int i = 0; i < n; i++) {
        System.out.print(ans[i] + " ");
-public static int[] updateQuery(int[] arr, int n, int left, int right, int x) {
   for (int i = left; i <= right; i++) {
    arr[i] = x;</pre>
    return arr;
```

## Add One

$$0001 = 5327$$
 $i = 8$ ,  $0001[i] = 5 + 1$ 
 $= 6$ 

break

$$cort S g \Rightarrow our[i] = 0$$

$$\frac{2}{\cos^2 x^2} = \frac{2}{x^2} = \frac{2}{y} = \frac{9}{y} = \frac{9}{y$$

$$i=3$$
,  $wor(3)=0$ 

$$i=1$$
,  $Ovr[1]=0$ 

1) traverse from night to left break;

psudo code

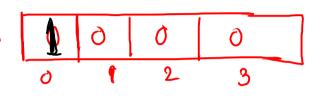
then update curr. val = 0

$$\frac{6x^{3}}{1} = 2$$
,  $\frac{000}{1} = 0$ 

$$i = 2$$
,  $Cover[2] = 0$   
 $i = 1$ ,  $Cover[2] = 0$   
 $i = 0$ ,  $Cover[2] = 0$ 

$$i = 1$$
,  $var[1] = 0$   
 $i = 0$ ,  $var[0] = 0$   
 $i = -1$  Looperd

$$\frac{\gamma = 3}{}$$



Note: if array traversal is completed that means all are 9

```
code
```

```
int n = scn.nextInt();
    int[] arr = new int[n];
    for (int i = 0; i < n; i++) {
        arr[i] = scn.nextInt();
    int[] ans = addOne(arr, n);
    for (int i = 0; i < ans.length; i++) {
        System.out.print(ans[i] + " ");
public static int[] addOne(int[] arr, int n) {
  for (int i = n - 1; i >= 0; i--) {
       -if ( arr[i] == 9 ) {
    arr[i] = 0;
            arr[i] = arr[i] + 1;
           return arr;
    int[] ans = new int[n + 1];
 \rightarrow ans[0] = 1;
    return ans;
```

-public static void main(String[] args) {

Scanner scn = new Scanner(System.in);

$$avi = \frac{5 \cancel{y} \cancel{y} \cancel{y} \cancel{y}}{5 \cancel{y} \cancel{y}}$$

$$i = 5, 0$$

$$i = 4, 0$$

$$i = 3, 0$$

$$i = 3, 0$$

$$i = 1, b$$

$$\begin{array}{c}
\text{OOO} & \text{OOO} \\
\text{OVI} = & \text{SSS} & \text{SSS} \\
\text{$i = 3, \\
$i = 2, \\
$i = 1 \\
$i = 0 \\
\hline
\text{OND} = & \text{OOO} & \text{OOO}
\end{array}$$