

```
N = 5
10 | 12 | 13 | 9 | L
0 | 1 | 2 | 3 | 4
```

```
1 import java.io.*;
 2 import java.util.*;
3
4 public class Solution {
5
6
      public static void main(String[] args) {
           Scanner scn = new Scanner(System.in);
8
           int n = scn.nextInt();
 9
           int [] A = new int[n];
10
           for(int i = 0; i < n; i++){
11
              A[i] = scn.nextInt();
12
           }
13
14
           int count = 0;
15
           for(int i = 0; i < n; i++){
16
              if(A[i] % 2 == 0){
17
                   count++;
18
               }
19
20
           System.out.println(count);
21
22 }
```

m = 3

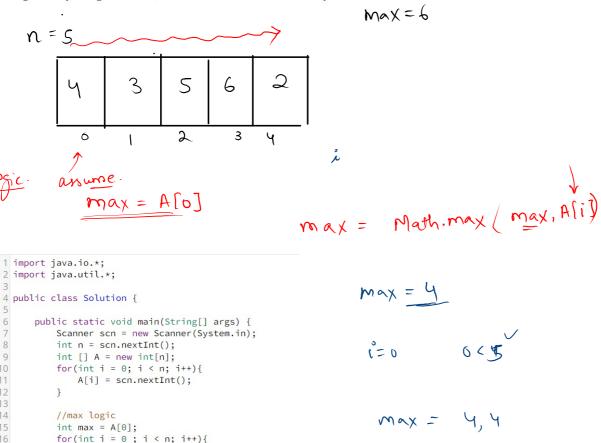
Maximum of Array

21 }

For the given array having **N** elements, find the **maximum element** of the array.

max = Math.max(A[i], max);

System.out.println(max);



Check Characterstic

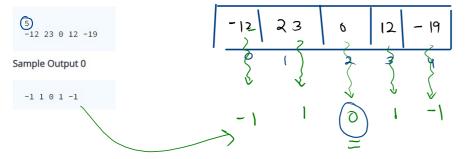
For each index,

Store 1 at that index if the element at that index is greater than zero.

Store 0 at the index if the element at that index is equal to zero.

Store -1 at the index if the element at that index is less than zero.

Sample Input 0



```
1 import java.io.*;
 2 import java.util.*;
 4 public class Solution {
      public static void main(String[] args) {
           Scanner scn = new Scanner(System.in);
           int n = scn.nextInt();
 9
           int [] A = new int[n];
           for(int i = 0; i < n; i++){
11
               A[i] = scn.nextInt();
12
14
           for(int i = 0; i < n; i++){
15
               if(A[i] > 0){
16
                   A[i] = 1;
17
               }else if(A[i] < 0){
                   A[i] = -1;
19
21
22
           //print
23
           for(int i = 0; i < n; i++){
24
               System.out.print(A[i] + " ");
25
26
27 }
```

Update query 1

Given an array of size **n** with intial values. Take **left**, **right** as integer inputs such that **0 <= left**, **right < arr.length** and also take **x** as an integer input.

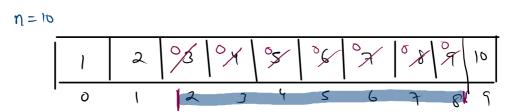
Then update the given array from the index-left till the index-right(both left index and right index included) with the element x. In the end print all the elements of the array such that each element is printed in a separate line

Sample Input 0



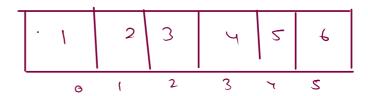
Sample Output 0





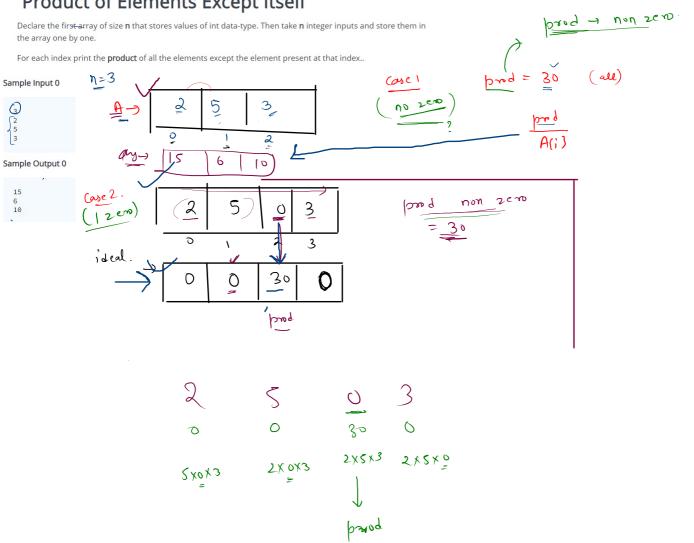
```
1 import java.io.*;
 2 import java.util.*;
 4 public class Solution {
 5
 6
       public static void main(String[] args) {
7
           Scanner scn = new Scanner(System.in);
 8
           int n = scn.nextInt();
9
           int [] A = new int[n];
10
           for(int i = 0; i < n; i++){
11
               A[i] = scn.nextInt();
12
13
           int l = scn.nextInt();
14
           int r = scn.nextInt();
15
           int x = scn.nextInt();
16
17
           //logic
18
           for(int i = l; i <= r; i++){
19
               A[i] = x;
20
21
           //print
22
           for(int i = 0; i < n; i++){
               System.out.print(A[i] + " ");
23
24
25
26 }
```



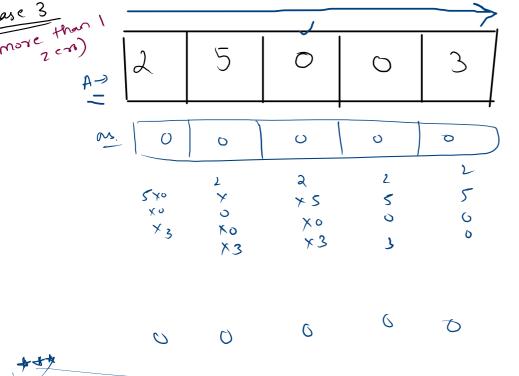


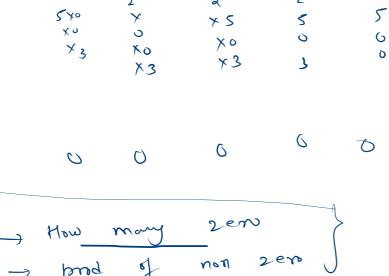
$$k=1$$
 $\gamma=3$
 $\gamma=5$

Product of Elements Except Itself



2000





10 30/5

30/3

2 ero = 0 |ond = 30

```
1 import java.io.*;
2 import java.util.*;
 3
 4 public class Solution {
       public static int [] productExceptSelf(int [] A){
 6
          int [] ans = new int[A.length]:
 7
 8
          //calc 2 imp factor
 9
          int zero = 0;
10
          int prod = 1; //prod of non zero
          for(int i = 0; i < A.length; i++){
11
12
               if(A[i] == 0){
13
                   zero++;
14
                           // non zero
               }else{
15
                   prod *= A[i];
16
               }
17
18
          //case 1: zero = 0
19
20
          if(zero == 0){
21
               for(int i = 0; i < ans.length; i++){</pre>
22
                   ans[i] = prod/A[i];
23
24
25
           //case 2: zero = 1
26
          else if(zero == 1){
27
               for(int i = 0; i < ans.length; i++){
28
                   if(A[i] == 0){
29
                       ans[i] = prod;
30
31
               }
32
33
           return ans;
34
35
```

```
36
       public static void main(String[] args) {
37
           Scanner scn = new Scanner(System.in);
38
           int n = scn.nextInt();
           int [] A = new int[n];
39
40
           for(int i = 0; i < n; i++){
41
42
               A[i] = scn.nextInt();
43
44
45
           int [] ans = productExceptSelf(A);
46
           for(int i = 0; i < ans.length; i++){</pre>
47
48
               System.out.println(ans[i]);
49
50
51
52 }
```