

3 3 3 3 5 5 5 2 2 7

$$3 \quad 4 \quad 70 \quad max$$
 $5 \quad 3 \quad rem = p \quad 4 \quad 7$

attend $4 = n/2$

helf $x = 2n/2$

n=10

```
1 vimport java.io.*;
2 import java.util.*;
3 *public class Solution {
       public static void main(String[] args) {
           Scanner scn = new Scanner(System.in);
           int n = scn.nextInt();
           int [] A = new int[n];
           for(int i = 0; i < n; i++){
9
               A[i] = scn.nextInt();
           HashMap<Integer, Integer> hm = new HashMap<>();
12 •
           for(int i = 0; i < n; i++){
13 •
               hm.put(A[i], hm.getOrDefault(A[i], 0)+1);
14
15
           PriorityQueue<Integer> pq = new PriorityQueue<>(Collections.reverseOrder());
16
           for(int k : hm.keySet()){
               pq.add(hm.get(k));
18
19
           int rem = 0;
           int ans = 0;
21
           while(rem < n/2){
22
               rem += pq.remove();
               ans++;
24
25
           System.out.println(ans);
26
```

27 }

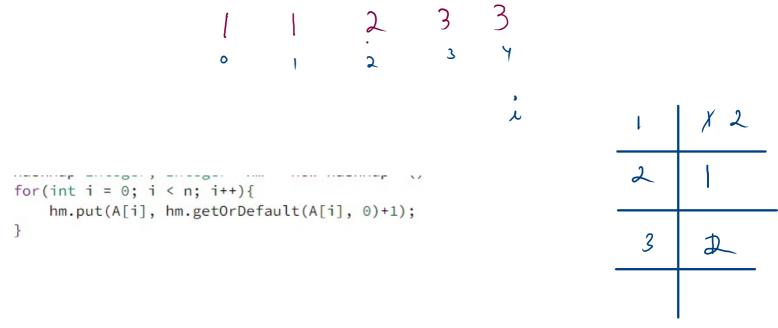
3 3 3 3 5 5 5 5 2 2 7

$$rcm = \emptyset \text{ y } \mp$$

$$cm = \emptyset \text{ y } 2$$







Maximum Product Subarray 2

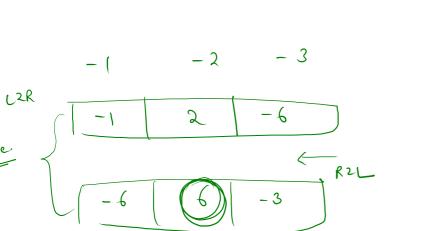
Problem Submissions Leaderboard Discussions Sofia is a student who is struggling with her grades in math class. Her teacher has given her a list of N integers, and she needs to find the contiguous subarray with the largest product. Can you help Sofia find the solution to this problem? Note: According to testcases answer will not overflow long n=6

Case 2 all -ve
$$-1$$
 -2 -3

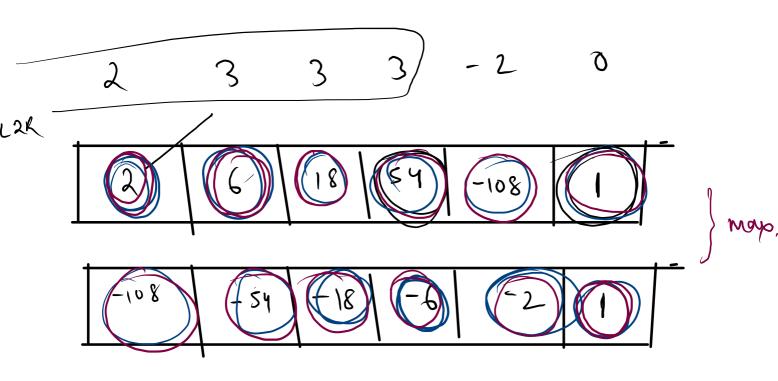
(ase 2 -1 -2 -3 -1 -2 -3 -1 -2 -3 -1

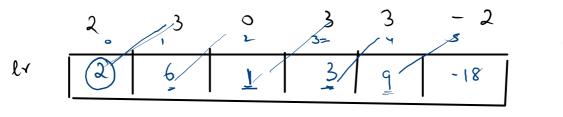
mix.
$$1 \quad 2 \quad -3 \quad -4 \quad 5 \quad 6$$

$$2 \quad even$$



ma -18 6 - 18





```
M = -\rho 0

2 \sqrt{q}

=
```

```
int ans = Integer.MIN_VALUE;

for(int i = 0; i < n; i++){
    if(i == 0){
        lr[i] = A[i];
    }
    else{
        lr[i] = lr[i-1] * A[i];
    }

    if(lr[i] == 0){
        lr[i] = 1;
    }

    ans = Math.max(ans, lr[i]);
}</pre>
```

16

17

18 19 **v**

20 *

21 *

23

24 🔻

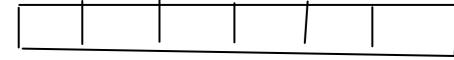
25 26 •

27 *

31







```
1 vimport java.io.*;
    import java.util.*;
 3 *public class Solution {
        public static void main(String[] args) {
 5
            Scanner scn = new Scanner(System.in);
 6
            int n = scn.nextInt();
            int [] A = new int[n];
 7 *
 8 .
            for(int i = 0; i < n; i++){
 9 1
                A[i] = scn.nextInt();
11 •
            int [] lr = new int[n];
12 •
            int [] rl = new int[n];
13
            int ans = Integer.MIN_VALUE;
            for(int i = 0; i < n; i++){
14 ▼
15 ▼
                if(i == 0){
16
                    lr[i] = A[i]:
17
18 ▼
                else{
19 •
                    lr[i] = lr[i-1] * A[i];
20
21 🔻
                if(lr[i] == 0){
22 1
                     lr[i] = 1;
23
24 ▼
                ans = Math.max(ans, lr[i]);
25
26 ▼
            for(int i = n-1; i > = 0; i--){
                if(i == n-1){
27 ▼
28 ▼
                     rl[i] = A[i];
29
```

```
for(int i = n-1; i>=0; i--){
    if(i == n-1){
        rl[i] = A[i];
    }
    else{
        rl[i] = rl[i+1] * A[i];
    }
    if(rl[i] == 0){
        rl[i] = 1;
    }
    ans = Math.max(ans, rl[i]);
}
System.out.println(ans);
}
```

25

26 ▼

27

28 •

30 ▼

31 ▼

33 •

34

36

35

37

38

39

40

32

29

```
1 import java.io.*;
 2 import java.util.*;
 3 public class Solution {
       public static void main(String[] args) {
           Scanner scn = new Scanner(System.in);
           int n = scn.nextInt();
           int [] A = new int[n];
           for(int i = 0; i < n; i++){
9
               A[i] = scn.nextInt();
10
11
           int ans = Integer.MIN_VALUE;
           int l = 1;
           int r = 1;
13
           for(int i = 0; i < n; i++){
14
15
               if(l==0)
16
                   l = 1;
17
               if(r==0)
18
                   r = 1;
19
               l *= A[i];
20
               r \star = A[n-i-1];
21
               ans = Math.max(ans, Math.max(l,r));
```

System.out.println(ans);

23

24

25 }

}

$$-2$$

$$3$$

$$5ort$$

$$0$$

$$0-(-2)$$

$$= 2$$

$$1$$

tar=0

$$6 -2 0 2 4 -2 -8$$

Sample Output 0