

Ques Maximum element of array

arr:

10	21	53	41	22	16	52
----	----	----	----	----	----	----

0 1 2 3 4 5 6

max = 53

→ Output

for (i = 0 to arr.length - 1) {

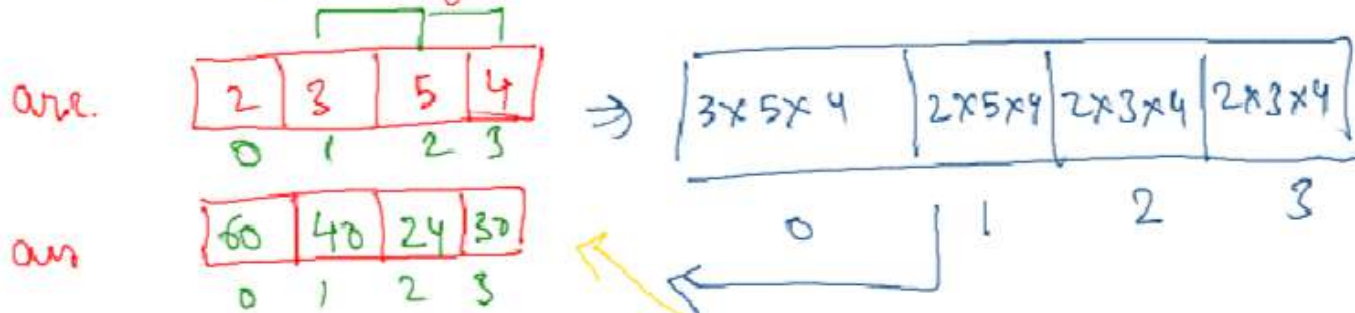
if (max < arr[i]) {
 max = arr[i];
}

System.out.println(max);

```
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 max = Integer.MIN_VALUE;  
  
    for (int i = 0; i < n; i++) {  
        if (max < arr[i]) {  
            max = arr[i];  
        }  
    }  
  
    System.out.println(max);  
}
```

Ques

product except itself



Approach

$$\text{product} = 2 \times 3 \times 5 \times 4$$
$$= 120$$

ans

2	3	5	4
0	1	2	3

ans =

$120/2$	$120/3$	$120/5$	$120/4$
0	1	2	3

 =

60	40	24	30
----	----	----	----

find product of each element
then iterate through array and
divide that product with that
index value of array.

```

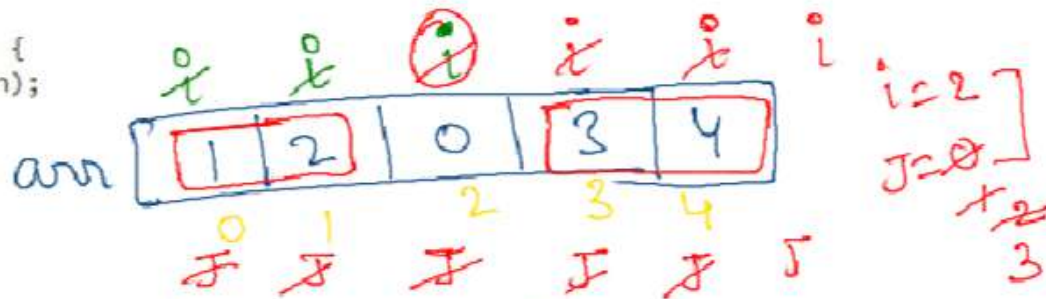
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    int[] arr = new int[n];

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

    int oprod = 1;
    for(int i=0; i<n; i++){
        oprod *= arr[i];
    }

    for(int i=0; i<n; i++){
        if(arr[i] == 0) {
            int ans = 1;
            for(int j=0; j<n; j++){
                if(i != j){
                    ans *= arr[j];
                }
            }
            System.out.println(ans);
        } else {
            System.out.println(oprod/arr[i]);
        }
    }
}

```

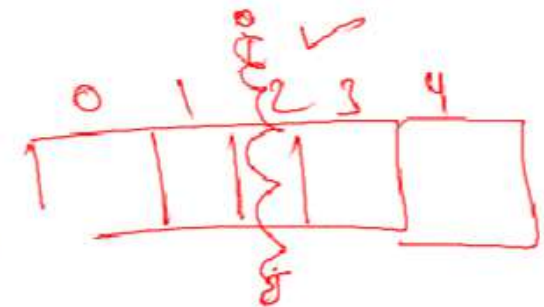


Output \Rightarrow

$0/1 = 0$
 $0/2 = 0$
 $= 24$
 $0/3 = 0$
 $0/4 = 0$

(24)

$ans = *$
 $1 \times 2 = 2 \times 3$
 $= 6 \times 4$
 $= 24$



Ques

Update values

arr =

↓

-2	0	13	-4	3
0	1	2	3	4

ans

-1	0	1	-1	1
----	---	---	----	---

```
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 = new int[n];
```

```
    for(int i=0; i<n; i++){
```

```
        if(arr[i] < 0){
```

```
            ans[i] = -1;
```

```
        } else if(arr[i] == 0){
```

```
            ans[i] = 0;
```

```
        } else{
```

```
            ans[i] = 1;
```

```
        }
```

```
    for(int i=0; i<n; i++){
```

```
        System.out.print(ans[i] + " ");
```

```
    }
```

arr:

0	1	2	3	4	5
-2	0	4	0	-11	5

~~0~~ ~~1~~ ~~2~~ ~~3~~ ~~4~~ ~~5~~

ans:

0	1	2	3	4	5
-1	0	1	0	-1	1

→

-1 0 1 0 -1 1

Question Solve

number =

10	20	30	40	50
0	1	2	3	4

index =

4	0	3	1	2
0	1	2	3	4

target =

20				10
0	1	2	3	4

$a = \text{num}[i]$

$b = \text{index}[i]$

$\text{target}[b] = a$

sum

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    int[] number = new int[n];
    int[] index = new int[n];

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

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

    int[] target = new int[n];
    for(int i=0; i<n; i++){
        int a = index[i];
        int b = number[i];
        target[a] = b;
    }

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

    /* Enter your code here. Read input from STDIN. Print output to STDOUT
}
```

num =

10	20	30	40	50
0	1	2	3	4

index =

1	3	0	2	4
0	1	2	3	4

target

30	10	40	20	50
0	1	2	3	4

→
array

Ques

10	20	30	40	50	60	70	80	90
0	1	2	3	4	5	6	7	8

→ left = 2

→ right = 6

x = 0

for (left to right) {
arr[i] = x;

↓

10	20	30	40	50	60	70	80	90
0	1	2	3	4	5	6	7	8
			x	x	x	x		

```
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(); 3  
    int right = scn.nextInt(); 5  
    int x = scn.nextInt(); -1
```

```
    for (int i = left; i <= right; i++) {  
        arr[i] = x;  
    }
```

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

```
    /* Enter your code here. Read input from STDIN. Print output to STE
```

Ques

add one

Test Case 2

QWNA

1	2	3	4	5	6
0	1	2	3	4	5

gun

1	2	3	4	5	7
---	---	---	---	---	---

Test 2
Case 2

DATA :

✓

1	2	3	4	5	9
---	---	---	---	---	---

0 1 2 3 4 5

QWED

$$= \begin{array}{|c|c|c|c|c|c|} \hline 1 & 2 & 3 & 4 & 6 & 0 \\ \hline \end{array}$$

Test 3

224 =

9	9
---	---

2348

100 ✓



1	2	3	4	5
---	---	---	---	---

12	23	34
13	24	35
14	25	45
15		—

→

10	50	20	30	40
----	----	----	----	----

max = 50 ✓

max (50, ...)

Ques Second Largest

A number line from 0 to 5. Above the line, there are jumps of 10, 20, 50, 40, 5, and 3. Above each jump is a stick figure with a number above its head: 1, 2, 3, 4, 5, and 3 respectively.

Second Max = 40

✓ $\text{THA } K = \frac{10}{20 \cdot 50}$

✓ $\text{SMA}_N = -$

if (arr[i] > max) {
 smax = max;
 max = arr[i];

```

else if (arr[i] > max) {
    max = arr[i];
}

```

$S_{\text{sys}}(S_{\text{max}});$