- **MEDIUM**
- **Max Score: 40 Points**

2nd Largest from array

Given an unsorted array of size N with distinct elements. Find the 2nd largest element from the array without sorting the array.

Input Format

The first line contains a single integer N.

The second line consists of N integers of the array.

Output Format

Print the second largest number in the new line.

Example 1

Input

```
6
3 2 1 5 6 4
```

Output

```
5
```

Explanation

5 is the second largest element of the array.

Example 2

Input

```
9
10 1 7 2 5 6 8 9 3
```

Output

```
9
```

Explanation

9 is the Second largest element in the array

Constraints:

2 <= N <= 10^5

-10^5 <= N <= 10^5

My code

```
// n java
import java.lang.*;
import java.io.*;

public class Main
{
```

```java
public static void main (String[] args) throws
java.lang.Exception
    {
        //your code here
    Scanner s=new Scanner(System.in);
    int n=s.nextInt();
    int arr[]=new int[n];
    for(int i=0;i<n;i++)
      arr[i]=s.nextInt();
    Arrays.sort(arr);
    System.out.print(arr[n-2]);




    }
}
```