

Find the Second Largest Element in an Array

Write a program to find the second-largest element in an array of integers without using any sorting algorithms or built-in array functions.

Instructions: Traverse the array manually to find both the largest and second-largest elements

```
function findSecondLargest(ar) {  
  if (a.length < 2) {  
    return "No Element Found";  
  }  
  
  let first = -Infinity;  
  let second = -Infinity;  
  
  for (let num of a) {  
    if (num > first) {  
      second = first;  
      first = num;  
    } else if (num > second && num !== first) {  
      second = num;  
    }  
  }  
  
  return secondlarge === -Infinity ? " There is no second largest element found in the array." : second;  
}  
let input = prompt("Enter the elements of the array:");  
let a = input.split(" ").map(Number);  
  
let res = findSecondLargest(ar);  
alert("The second largest element is: " + res);
```

SAMPLE INPUT 1: Enter the elements of the array:-10 -5 5 0 5 -20 10

SAMPLE OUTPUT 1: The second largest element is: 5

SAMPLE INPUT 2: Enter the elements of the array:3 3 3 3 3 3

SAMPLE OUTPUT 2: The second largest element is: There is no second largest element found in the array.

SAMPLE INPUT 3: Enter the elements of the array:1000000000 2000000000 3000000000

SAMPLE OUTPUT 3: The second largest element is: 2000000000