PROBLEM STATEMENT

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.

SOLUTION :

```
const arr=[100,100,100,99,99,80];

let max=0;

for(var i=0;i<arr.length;i++)

{

   if(max<arr[i])

   {

      max=arr[i];

   }


}
let max1=0;

for(var i=0;i<arr.length;i++)

{

   if(arr[i]!=max)

   {

      if(max1<arr[i])

      {

         max1=arr[i];

      }

   }
}
console.log("Largest number in  the Array : "+max);

console.log("Second-largest number in the Array : "+max1);
```

Test case 1:

Input:

arr = [100,100,89,99,77,64,79,99]

Output:

Largest number in the Array : 100

Second-largest number in the Array : 99

Test case 2:

Input:

arr = [11,17,31,5,19,33,57]

Output:

Largest number in the Array : 57

Second-largest number in the Array : 33

Test case 3:

Input:

arr = [1,2,3,4,5,6,7,8,9,10]

Output:

Largest number in the Array : 10

Second-largest number in the Array : 9