

4. write the program to find the largest number of an array.

Program:

```
def find_largest(arr):  
    if len(arr)==0:  
        return None  
    elif len(arr)==1:  
        return arr[0]  
    else:  
        max_elements=arr[0]  
        for elements in arr[1:]:  
            if elements>max_elements:  
                max_elements=elements  
        return max_elements  
array=[10,33,5,17,30]  
largest=find_largest(array)  
print("the largest element in the array is :",largest)
```

Output:

```
C:\Users\srika\Desktop\CSA0863\pythonProject\.venv\Scripts\python.exe "C:\Users\srika\Desktop\CSA0863\pythonProject\problems\CSV files.py"  
the largest element in the array is : 33  
  
Process finished with exit code 0
```

Time complexity: $O(n)$