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HATFD1025

1] PROBLEM STATEMENT:

Find the Second Largest Element in an Array

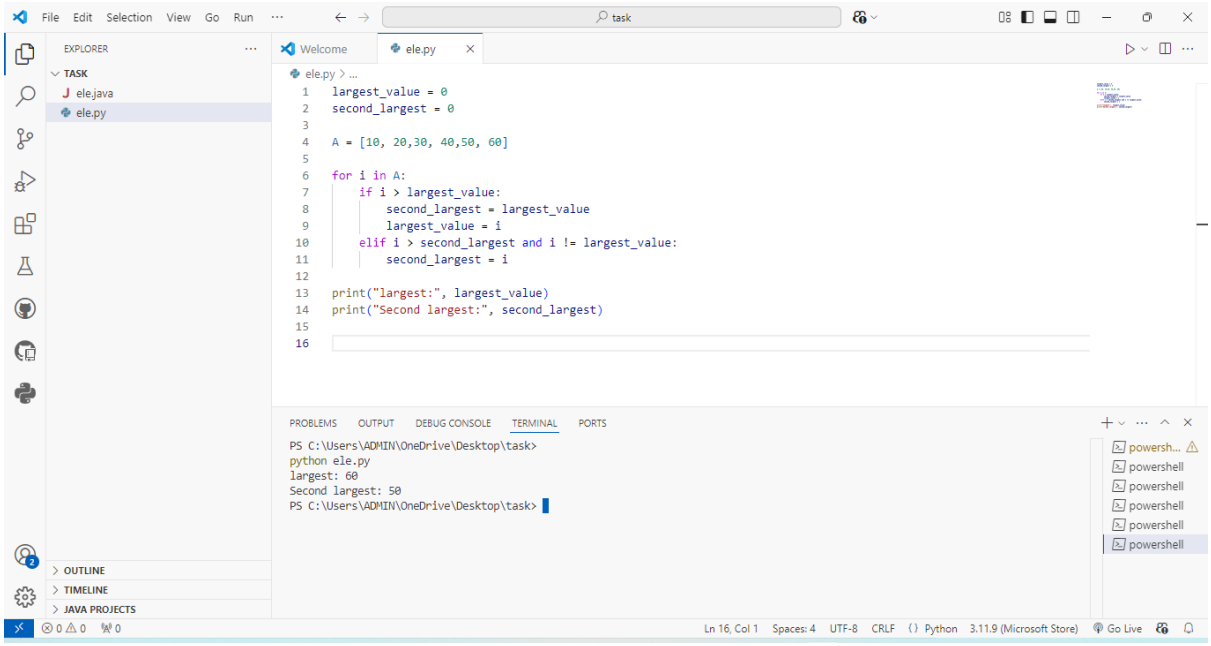
Write a program to find the second-largest element in an array of integers without using any sorting

algorithms or built-in array functions.

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

CODE:

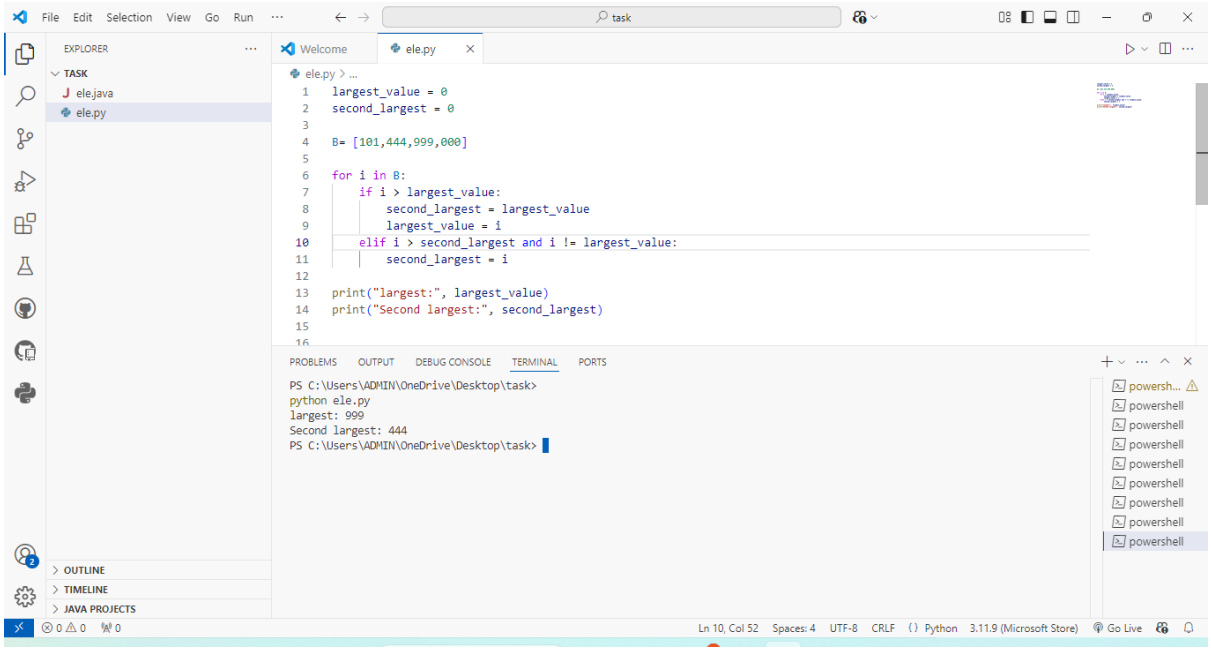
```
largest_value = 0
second_largest = 0
A = [10, 20,30, 40,50, 60]
for i in A:
    if i > largest_value:
        second_largest = largest_value
        largest_value = i
    elif i > second_largest and i != largest_value:
        second_largest = i
print("largest:", largest_value)
print("Second largest:", second_largest)
```



2ND

```
largest_value = 0
second_largest = 0
B= [101,444,999,000]
for i in B:
    if i > largest_value:
        second_largest = largest_value
        largest_value = i
    elif i > second_largest and i != largest_value:
        second_largest = i
print("largest:", largest_value)
print("Second largest:", second_largest)
```

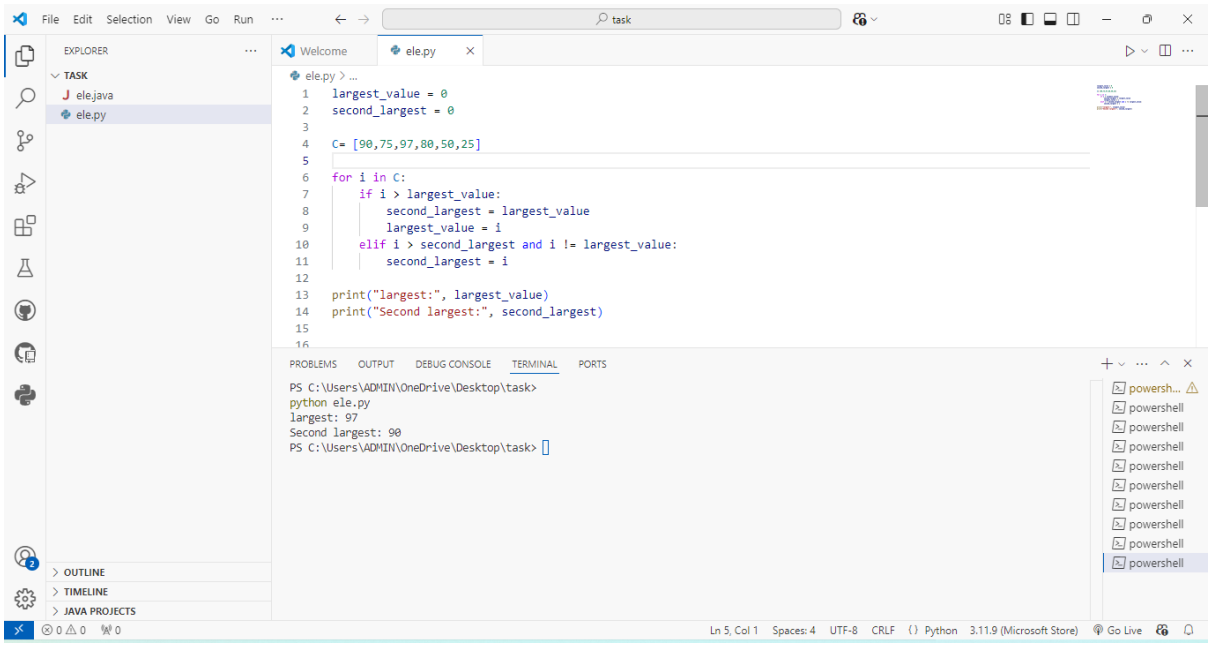
OUTPUT:



3rd

```
largest_value = 0
second_largest = 0
C= [90,75,97,80,50,25]
for i in C:
    if i > largest_value:
        second_largest = largest_value
        largest_value = i
    elif i > second_largest and i != largest_value:
        second_largest = i
print("largest:", largest_value)
print("Second largest:", second_largest)
```

OUTPUT:


File Edit Selection View Go Run
task
EXPLORER
TASK
ele.java
ele.py
Welcome
ele.py
ele.py > ...
largest_value = 0
second_largest = 0
C= [90,75,97,80,50,25]
for i in C:
if i > largest_value:
second_largest = largest_value
largest_value = i
elif i > second_largest and i != largest_value:
second_largest = i
print("largest:", largest_value)
print("Second largest:", second_largest)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\ADMIN\OneDrive\Desktop\task>
python ele.py
largest: 97
Second largest: 90
PS C:\Users\ADMIN\OneDrive\Desktop\task>
powersh...
powershell
OUTLINE
TIMELINE
JAVA PROJECTS
Ln 5, Col 1 Spaces: 4 UTF-8 CRLF Python 3.11.9 (Microsoft Store) Go Live