



STUDENT REPORT

DETAILS

Name

P.RAVI KUMAR

Roll Number

22BI24ME461-T

EXPERIMENT

Title

SUB.ARRAY WITH MAX SUM

Description

You are given a list of integers, and your task is to find the subarray with the maximum sum. Write a function or method to solve this problem efficiently and return the maximum sum.

Input:

n: the no of elements in the array

nums (List of integers): A list of integers ($1 \leq \text{len}(\text{nums}) \leq 10^5$)

Sample input:

8
-1 2 3 10 -4 7 2 -5

Sample output:

20

Explanation:

The max subarry sum is 20. The subarray is [2,3,10,-4,7,2]

Source Code:

```
n=int(input())  
  
l=list(map(int,input().split()))  
  
s=l[0]  
ms=l[0]  
for i in range(1,n):  
    s=max(l[i],s+l[i])  
    ms=max(ms,s)  
print(ms)
```

RESULT

5 / 5 Test Cases Passed | 100 %