Logo

STUDENT REPORT

DETAILS

Name

BHOOMIKA

Roll Number

3BR23EC025

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 <= len(nums) <= 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 %