Logo

STUDENT REPORT

DETAILS

Name

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Roll Number

KUB23CSE114

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())
arr=list(map(int, input().split()))
maxsum=float('-inf')
for i in range(len(arr)):
    currsum=0
    for j in range(i,len(arr)):
        currsum+=arr[j]
        if currsum>maxsum:
            maxsum=currsum

print(maxsum)
```

RESULT

5 / 5 Test Cases Passed | 100 %