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## STUDENT REPORT

NEAS

### DETAILS

S IMMANVIEL DAVID RAJ

# Name **Roll Number**

22BI24ME451-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  $\leq$  len(nums)  $\leq$  10^5)

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Sample input:

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

#### **RESULT**

5 / 5 Test Cases Passed | 100 %

https://practice.reinprep.com/student/get-report/a7baee84-7bee-11ef-ae9a-0e411ed3c76b

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