



# STUDENT REPORT

## DETAILS

Name

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Roll Number

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## 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 subarray 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

3BR

ME02b

R23M

3BR  
26 3BR

ME02  
ME02

R23M  
R23M

26 3BR  
26 3BR