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# STUDENT REPORT

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# DETAILS

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# 23CA05 Roll Number

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### **EXPERIMENT**

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## A056 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.

CAO

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

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Explanation:

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

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**Source Code:** 

```
n=int(input())
                                            l=list(map(int,input().split()))
                                            s=1[0]
                                            ms=1[0]
                                            for i in range(1,n):
                                                       s=max(l[i],s+l[i])
                                                      ms=max(ms,s)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  23CAD 23CAD 23CAD 38R23CAD 23CAD 23C
                                             print(ms)
RESULT
                     5 / 5 Test Cases Passed | 100 \%
```