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STUDENT REPORT
DETAILS
     Name
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     Roll Number
       TEMPBTech-CSE054
  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:
       -1 2 3 10 -47 2 -5
       Sample output:
       20
       Explanation:
       The max subarry sum is 20. The subarray is 12,3,10,-4,7,21
     Source Code:
       def max_subarray_sum(nums):
            max_so_far = nums[0]
            curr_max = nums[0]
            for num in nums[1:]:
                 curr_max = max(num, curr_max + num)
                 max_so_far = max(max_so_far, curr_max)
            return max_so_far
       n = int(input())
       nums = list(map(int, input().split()))
       max_sum = max_subarray_sum(nums)
       print(max_sum)
```

RESULT

5 / 5 Test Cases Passed | 100 %