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Logo
                                                     STUDENT REPORT
DÉTAILS
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        Roll Number &
          TEMPBTech-CSE040
      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:
           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)
                            (EM
```

RESULT

5 / 5 Test Cases Passed | 100 %