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Logo
STUDENT REPORT
                                                       270 34
           Roll Number
            3BR23CD070
            38225
        EXPERIMENT
           SUB ARRAY WITH MAX SUM
52,3C00103882
          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
 236007038
             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
                                                                                                                                                 510 38 P 23 C
             Sample output:
             20
             Explanation:
             The max subarry sum is 20. The subarray is [2,3,10,-4,7,2]
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           Source Code:
             def max_subarray_sum(nums):
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                  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)
                                 3822.
```