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Logo
                                                     STUDENT REPORT
DETAILS
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         Roll Number
           3BR23EC044
       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
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            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]
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         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)
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```

RESULT

5 / 5 Test Cases Passed | 100 %