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Logo
DETAILS
Nam
                                                     STUDENT REPORT
           SHAGUFTHA NIKHAR
                                               287
         Roll Number
           3BR23CD087
       EXPERIMENTS
       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.
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           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]
813BR2?
         Source Code:
            def max_subarray_sum(nums):
               max_sum = current_sum = nums[0]
                for num in nums[1:]:
                    current_sum = max(num, current_sum + num)
                    max_sum = max(max_sum, current_sum)
                return max_sum
           n = int(input())
           nums = list(map(int, input().split()))
           result = max_subarray_sum(nums)
           print(result)
```

RESULT

5 / 5 Test Cases Passed | 100 %