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DETALS

No
           V SHASHIDHARA
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                                                                                      Blog
          Roll Number
            TEMPBToch-EEE120
       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
in 20 Tomp's
            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)
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            Sample input:
            8
            -1 2 3 10 -4 7 2 -5
                                                                                                                                                No contraction
            Sample output:
            20
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            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)
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RESMET

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