

United International University
DSA II Lab (Coding Test 1)
Section: A (SET A)
Total marks: 20 Time: 1 hour

Given an integer array **nums**, find the subarray with the largest sum, and return *its sum*.

Example 1:

Input: `nums = [-2,1,-3,4,-1,2,1,-5,4]`

Output: `6`

Explanation: The subarray `[4,-1,2,1]` has the largest sum 6.

Example 2:

Input: `nums = [1]`

Output: `1`

Explanation: The subarray `[1]` has the largest sum 1.

Example 3:

Input: `nums = [5,4,-1,7,8]`

Output: `23`

Explanation: The subarray `[5,4,-1,7,8]` has the largest sum 23.

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Total marks: 20 Time: 1 hour

Given an integer array **nums**, find the subarray with the smallest sum, and return *its sum*.

Example 1:

Input: `nums = [3, -1, -4, 2, -6, 1, 5]`

Output: `-9`

Explanation: The subarray `[-1, -4, 2, -6]` has the smallest sum `-9`.

Example 2:

Input: `nums = [1]`

Output: `1`

Explanation: The subarray `[1]` has the smallest sum `1`.

Example 3:

Input: `nums = [-5, -2, -1, 0, 1]`

Output: `-8`

Explanation: The subarray `[-5, -2, -1]` has the smallest sum `-8`.