

# Maximum Contiguous Subarray Sum



**Challenge name:** maximum\_contiguous\_subarray\_sum

**Description:** Find maximum sum of contiguous subarray

- Given an array of integers, the goal is to find the maximum possible sum of a contiguous subarray in the array.
- Example
  - Input: [-2, 1, -3, 4, -1, 2, 1, -5, 4]. The contiguous subarray with the maximum sum is [4, -1, 2, 1], and the resulting sum **output is 6**.
  - Input: [-1, -2, -3, -4, -5]. The contiguous subarray with the maximum sum is [-1], and the resulting sum **output is -1**.
  - Input: [1, 2, 3, 4, 5]. The contiguous subarray with the maximum sum is [1,2,3,4,5], and the resulting sum **output is 15**.
  - Input: [2, -1, 4, -2, 5, -3, 6, -4, 7]. The contiguous subarray with the maximum sum is [4, -2, 5, -3, 6, -4, 7], and the resulting sum **output is 13**.

After completing the challenge please submit it in this [form](#).