

Maximum Subarray

Try to solve the Maximum Subarray problem.

We'll cover the following ^

- Statement
- Examples
- Understand the problem
- Try it yourself

Statement

Given an integer array, `nums`, find the contiguous subarray (containing at least one number) which has the largest sum and return its sum.

Note: A subarray is a contiguous part of an array.

Constraints:

- $1 \leq \text{nums.length} \leq 10^5$
- $-10^4 \leq \text{nums}[i] \leq 10^4$

Examples

Sample example 1

Input

2	1	0	4	1	-1	2	1	-10	4	-2	5
---	---	---	---	---	----	---	---	-----	---	----	---

Output

2	1	0	4	1	-1	2	1	-10	4	-2	5
---	---	---	---	---	----	---	---	-----	---	----	---

The largest sum inside the array above is **10**.

1 of 2




Sample example 2

Input

4	8	-12	5	1	-4	20	1	-15	1	2	-2
---	---	-----	---	---	----	----	---	-----	---	---	----

Output

--	--	--	--	--	--	--	--	--	--	--	--



4	8	-12	5	1	-4	20	1	-15	1	2	-2
---	---	-----	---	---	----	----	---	-----	---	---	----

The largest sum inside the array above is **23**.

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Understand the problem

Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:

Maximum Subarray

1

What is the correct output if the following array is passed as input?

nums = [-2, 1, 0, 4, -1, 7, 1, 5, -8]

A) 15

B) 17

C) 16

Submit Answer

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Question 1 of 2
0 attempted

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Reset Quiz ↻

Try it yourself

Implement your solution in the following coding playground:

Java

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usercode > MaxSubArray.java

```
1 import java.util.*;
2 public class MaxSubArray{
3     public static int maxSubArray(int[] nums) {
```

```
7         return 0;
8     }
9 }
```

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Submit

Test Cases Results

Case 1

Case 2

Case 3


Input #1

[-2,1,-3,4,-1,2,1,-5,4]

Maximum Subarray

 Hide Hint

You might want to go over the [Sliding Window](#) pattern again.

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Contains Duplicate

Next 

Two Sum

☒ Mark as Completed

