Minimum Size Subarray Sum

Try to solve the Minimum Size Subarray Sum problem.

We'll cover the following

Statement

Given an array of positive integers, `nums`, and a positive integer, `target`, find the minimum length of a contiguous subarray whose sum is greater than or equal to the `target`. If no such subarray is found, return `0`.

Constraints:

- $1 \leq$ `target` $\leq 10^9$
- $1 \leq$ `nums.length` $\leq 10^5$
- $1 \leq$ `nums[i]` $\leq 10^4$

Examples

Sample Example 1

Input

nums	2	3	1	2	4	3

target	7

Output

Min. Length of Subarray	2

1 of 3

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:

Minimum Size Subarray Sum

1 What is the output if the following values are given as input?

nums = [1, 2, 7, 1, 8]

target = 9

A) 3

B) 2

C) 5

D) 1

Submit Answer

Question 1 of 3
0 attempted

Reset Quiz

Figure it out!

We have a game for you to play. Rearrange the logical building blocks to develop a clearer understanding of how to solve this problem.

Drag and drop the cards to rearrange them in the correct sequence.

Initialize the window size with the maximum possible value.

Iterate over the input array and, in each iteration, add an element of the array in `sum`.

If the `sum` is greater than or equal to the `target`, compare the previous window size with the current one and store the smaller value in the window size.

Slide the window to the right, while subtracting the leftmost element from the `sum` until a

smaller subarray with a sum smaller than `target` is found.

Repeat the process until the entire array is iterated.

If the window size is not equal to positive infinity, return it. Otherwise, return `0`.

Reset | Show Solution | Submit

Try it yourself

Implement your solution in the following coding playground:

java

```
import java.util.*;
class MinimumSubArraySum{
    public static int minSubArrayLen(int target, int[] nums) {

        // Write your code here

        return -1;
    }
}
```

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Test Cases | Results

Case 1 | Case 2 | Case 3

Input #1

7

Input #2

[2,3,1,2,4,3]

Minimum Size Subarray Sum

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Solution: Longest Sub...

Next

Solution: Minimum Siz...

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