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C++

Auto

## 209. Minimum Size Subarray Sum

Medium



8.8K

245



Companies

Given an array of positive integers `nums` and a positive integer `target`, return the **minimal length** of a **subarray** whose sum is greater than or equal to `target`. If there is no such subarray, return `0` instead.

### Example 1:

**Input:** `target = 7, nums = [2,3,1,2,4,3]`

**Output:** 2

**Explanation:** The subarray `[4,3]` has the minimal length under the problem constraint.

### Example 2:

**Input:** `target = 4, nums = [1,4,4]`

```

1 class Solution {
2 public:
3     int minSubArrayLen(int target, vector<int>& a) {
4         int ans = INT_MAX;
5         int sum = 0;
6         int start = 0, end = 0;
7         int n = a.size();
8         while(end < n){
9             sum += a[end];
10            while(start < a.size() && sum >= target){
11                int temp = end - start + 1;
12                ans = min(ans,temp);
13                sum -= a[start++];
14            }
15            end++;
16        }
17        if(ans == INT_MAX)
18            return 0;
19        return ans;
20    }
21 };
```

Console



Run

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Description

Discussion (36)

Solutions (3.5K)

Submissions

C++

Auto



## 152. Maximum Product Subarray

Medium



👍 15.2K

💬 458



🔒 Companies

Given an integer array `nums`, find a **subarray** that has the largest product, and return *the product*.

The test cases are generated so that the answer will fit in a **32-bit** integer.

### Example 1:

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

**Output:** 6

**Explanation:** `[2,3]` has the largest product 6.

### Example 2:

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

**Output:** 0

**Explanation:** The result cannot be 2, because `[-2,-1]` is not a subarray.

```
1 class Solution {
2 public:
3     int maxProduct(vector<int>& a) {
4         int res = a[0];
5         int maxi = res;
6         int mini = res;
7
8         int n = a.size();
9         for(int i = 1 ; i<n ; i++){
10             if(a[i] < 0){
11                 swap(maxi,mini);
12             }
13             maxi = max(a[i] , maxi*a[i]);
14             mini = min(a[i] , mini*a[i]);
15             res = max(res , maxi);
16         }
17         return res;
18     }
19 };
```

Console ^



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## Triplet Sum in Array

Medium Accuracy: 35.0% Submissions: 205K+ Points: 4



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Given an array arr of size n and an integer X. Find if there's a triplet in the array which sums up to the given integer X.

### Example 1:

Input:

n = 6, X = 13

arr[] = [1 4 45 6 10 8]

Output:

1

Explanation:

The triplet {1, 4, 8} in the array sums up to 13.

### Example 2:

C++ (g++ 5.4)

Average Time: 15m

Start Timer



```
1 // } Driver Code Ends
2
3 class Solution{
4 public:
5 //Function to find if there exists a triplet in the
6 //array A[] which sums up to X.
7 bool find3Numbers(int A[], int n, int X)
8 {
9 //Your Code Here
10 sort(A,A+n);
11 for(int i = 0 ; i<n ; i++){
12     int y = X- A[i];
13     int low = i+1 , high = n-1;
14
15     while(low < high){
16         if(A[low] + A[high] == y){
17             return 1;
18         }else if (A[low ] + A[high] > y){
19             high--;
20         }else if (A[low] + A[high] < y){
21             low++;
22         }
23     }
24 }
25
26 return 0;
27 }
28
29 };
30 // } Driver Code Ends
```



Custom Input

Compile & Run

Submit