

Subarray with 0 sum



Easy

Accuracy: 39.79%

Submissions: 176K+

Points: 2



Don't Miss Out on the Exciting World of Data Science and Unlock Your Full Potential Today. Try this course!



Given an array of positive and negative numbers. Find if there is a **subarray** (of size at-least one) with **0 sum**.

Example 1:

Input:

5

4 2 -3 1 6

Output:

Yes

Explanation:

2, -3, 1 is the subarray with sum 0.

```
1 // } Driver Code Ends
10 class Solution{
11 public:
12     //Complete this function
13     //Function to check whether there is a subarray present with 0-sum or not.
14     bool subArrayExists(int arr[], int n)
15     {
16         //Your code
17         unordered_set<int>s;
18         int sum = 0;
19         for(int i = 0;i<n;i++){
20             sum += arr[i];
21             if (s.find(sum) != s.end())
22                 return true;
23             if(sum == 0)
24                 return true;
25             s.insert(sum);
26         }
27         return false;
28     }
29 };
30 // } Driver Code Ends
```

[Custom Input](#)[Compile & Run](#)[Submit](#)



Largest subarray with 0 sum



Easy

Accuracy: 41.84%

Submissions: 182K+

Points: 2



Don't Miss Out on the Exciting World of Data Science and Unlock Your Full Potential

Today. Try this course!



Given an array having both positive and negative integers. The task is to compute the length of the largest subarray with sum 0.

Example 1:

Input:

N = 8

A[] = {15,-2,2,-8,1,7,10,23}

Output: 5

Explanation: The largest subarray with sum 0 will be -2 2 -8 1 7.

Your Task:

You just have to complete the function **maxLen()** which takes two arguments an array **A** and **n**, where n is the size of the array A and returns the length of the largest subarray with 0 sum.

```
1 // } Driver Code Ends
9 /*You are required to complete this function*/
10
11 class Solution{
12 public:
13     int maxLen(vector<int>&a, int n)
14     {
15         unordered_map <int,int> mp;
16         int cnt=0,sum=0;
17         for(int i=0;i<n;i++){
18             sum+=a[i];
19             if(sum==0){
20                 cnt=i+1;
21             }else if(mp[sum]>0){
22                 cnt=max(cnt,i-mp[sum]+1);
23             }else{
24                 mp[sum]=i+1;
25             }
26         }
27         return cnt;
28     }
29 };
30
31 // } Driver Code Ends
```



Custom Input

Compile & Run

Submit

Longest consecutive subsequence

Medium

Accuracy: 33.0%

Submissions: 219K+

Points: 4



Don't Miss Out on the Exciting World of Data Science and Unlock Your Full Potential Today. Try this course!

Given an array of positive integers. Find the length of the longest subsequence such that elements in the subsequence are consecutive integers, the **consecutive numbers can be in any order**.

Example 1:

Input:

N = 7

a[] = {2,6,1,9,4,5,3}

Output:

6

Explanation:

The consecutive numbers here are 1, 2, 3, 4, 5, 6. These 6

C++ (g++ 5.4)

Average Time: 25m

Start Timer



```
1 // } Driver Code Ends
2
3 class Solution{
4 public:
5     // arr[] : the input array
6     // N : size of the array arr[]
7
8     //Function to return length of longest subsequence of consecutive integers.
9     int findLongestConseqSubseq(int arr[], int n)
10    {
11        //Your code here
12        sort (arr,arr+n);
13        int cnt = 1 , res = 1;
14
15        if(n==0){
16            return 0;
17        }
18        for(int i = 1 ; i<n ; i++){
19            if(arr[i] == arr[i-1]+1){
20                cnt++;
21            }else if(arr[i]==arr[i-1]){
22                continue;
23            }else{
24                cnt=1;
25            }
26            res = max(res,cnt);
27        }
28        return res;
29    }
30 };
31 // } Driver Code Ends
```



Custom Input

Compile & Run

Submit