

ASK/VIEW DOUBT

SOLUTION

HINT

Problem

Result

Longest subset zero sum

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Given an array consisting of positive and negative integers, find the length of the longest subarray whose sum is zero.

**NOTE: You have to return the length of longest subarray .**

**Input Format :**

Line 1 : Contains an integer N i.e. size of array

Line 2 : Contains N elements of the array, separated by spaces

**Output Format**

Line 1 : Length of longest subarray

**Constraints:**

0 <= N <= 10^8

**Sample Input :**

10  
95 -97 -387 -435 -5 -70 897 127 23 284

**Sample Output :**

5

▶

```
1 #include<unordered_map>
2 using namespace std;
3
4 int lengthOfLongestSubsetWithZeroSum(int* arr, int n){
5     if(n==1){
6         if(arr[0]==0){
7             return 1;
8         }
9     }
10    unordered_map<int,int> s;
11    int sum=0;
12    int mlength=0;
13    for(int i=0;i<n;i++){
14        int length=0;
15        sum+=arr[i];
16
17        if(s.count(sum)>0){
18            length = abs(s[sum]-i);
19        }
20        else{
21            s[sum]=i;
22        }
23        //cout<<sum<<endl;
24        if(length>mlength)
25            mlength=length;
26    }
27    return mlength;
28 }
29
30
31
32
33
34
```

< PREVIOUS

> NEXT

CUSTOM INPUT

SUBMIT SOLUTION

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