Find Only Repetitive Element from 1 to n-1

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Difficulty: **Easy** Accuracy: **59.22%** Submissions: **18K+** Points: **2**

Given an array **arr[]** of size **n**, filled with numbers from **1** to **n-1** in random order. The array has **only** one repetitive element. Your task is to find the **repetitive element**.

Note: It is guaranteed that there is a repeating element present in the array.

Examples:

Input: arr[] = [1, 3, 2, 3, 4]
Output: 3
Explanation: The number 3 is the only repeating element.

Input: arr[] = [1, 5, 1, 2, 3, 4]
Output: 1
Explanation: The number 1 is the only repeating element.

Input: arr[] = [1, 1]
Output: 1
Explanation: The array is of size 2 with both elements being 1, making 1 the repeating element.

Constraints:
$2 \leq arr.size() \leq 10^5$
$1 \leq arr[i] \leq n-1$

Try more examples

Expected Complexities

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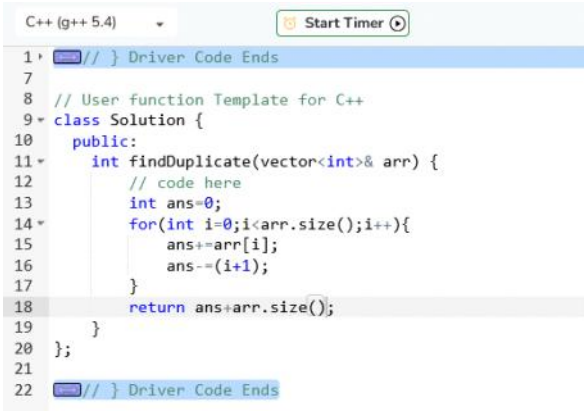
Approach:- T.C. O(n) S.C. O(1)

The idea is to start traversing the array & add each element to res & at the same time subtract the index.


C++ (g++ 5.4)
Start Timer
// } Driver Code Ends
// User function Template for C++
class Solution {
public:
int findDuplicate(vector<int>& arr) {
// code here
int ans=0;
for(int i=0;i<arr.size();i++){
ans+=arr[i];
ans-=(i+1);
}
return ans+arr.size();
}
};
// } Driver Code Ends