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| **Good Integers distinct in C++** | |
| #include <iostream>  #include <vector>  #include <algorithm>  using namespace std;  int GoodIntegers(vector<int>& arr) {  sort(arr.begin(), arr.end()); // Sort the array  int ans = 0;  for (int i = 0; i < arr.size(); ++i) {  if (arr[i] == i) { // Check if the value at index i matches i  ++ans;  }  }  return ans; // Return the count of good integers  }  int main() {  vector<int> arr = {0, 1, 5, 7, 8, 9, 4};  cout << GoodIntegers(arr) << endl;  return 0;  } | ****Input:**** vector<int> arr = {0, 1, 5, 7, 8, 9, 4}; ****Step 1: Sort the array**** Sorted arr = {0, 1, 4, 5, 7, 8, 9}  ↑ ↑ ↑ ↑ ↑ ↑ ↑  Index 0 1 2 3 4 5 6 ****Step 2: Compare each element with its index****  | **Index i** | **arr[i]** | **arr[i] == i** | **Count (ans)** | | --- | --- | --- | --- | | 0 | 0 | ✅ Yes | 1 | | 1 | 1 | ✅ Yes | 2 | | 2 | 4 | ❌ No | 2 | | 3 | 5 | ❌ No | 2 | | 4 | 7 | ❌ No | 2 | | 5 | 8 | ❌ No | 2 | | 6 | 9 | ❌ No | 2 |  ****Final Output:**** cout << GoodIntegers(arr); // Output: 2  ✅ Because arr[0] = 0 and arr[1] = 1 match their indices. |
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