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| **Max Chunks to make array sorted in C++** | |
| #include <iostream>  #include <vector>  using namespace std;  int maxChunksToSorted(vector<int>& arr) {  int max\_val = 0;  int count = 0;  for (int i = 0; i < arr.size(); i++) {  max\_val = max(max\_val, arr[i]);  if (i == max\_val) {  count++;  }  }  return count;  }  int main() {  vector<int> arr = {4, 3, 2, 1, 0};  int res = maxChunksToSorted(arr);  cout << res << endl;  return 0;  } | Input: vector<int> arr = {4, 3, 2, 1, 0}; 🔍 Dry Run Table: Let's walk through the loop step-by-step and record values:   | **i** | **arr[i]** | **max\_val (max so far)** | **i == max\_val?** | **count** | | --- | --- | --- | --- | --- | | 0 | 4 | 4 | ❌ | 0 | | 1 | 3 | 4 | ❌ | 0 | | 2 | 2 | 4 | ❌ | 0 | | 3 | 1 | 4 | ❌ | 0 | | 4 | 0 | 4 | ✅ | 1 |  ✅ Output: 1 |
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