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 / Two Pointers (/courses/programming/topics/two-pointers/)
 / Remove Duplicates From Sorted Array Ii

Remove Duplicates from Sorted Array II

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Remove Duplicates from Sorted Array

Given a sorted array, remove the duplicates in place such that each element can appear atmost twice and return the new length.

Do not allocate extra space for another array, you must do this in place with constant memory.

Note that even though we want you to return the new length, make sure to change the original array as well in place

For example,
Given input array `A = [1,1,1,2]` ,

Your function should return length = `3` , and A is now `[1,1,2]` .
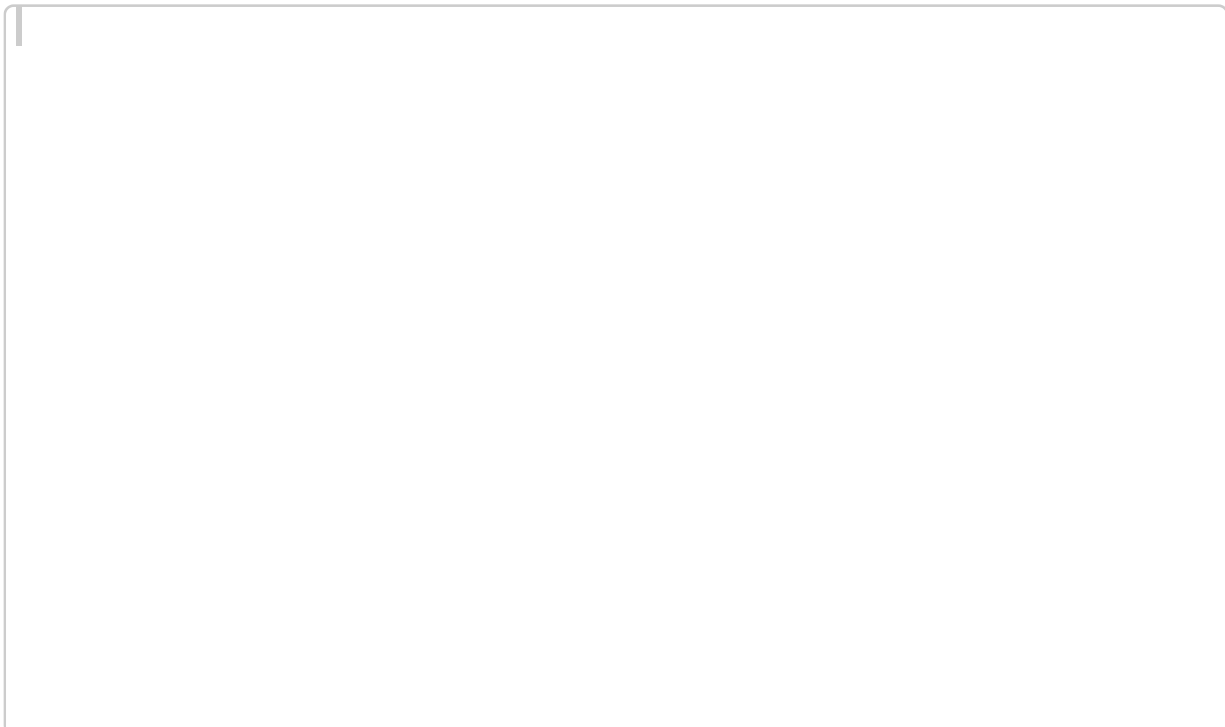
See Expected Output

Seen this question in a real interview before (Yes

No

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Notes
All Notes (/profile/karandeep-singh_845/notes/?ref=problem-
page)

🕐   01 : 35 : 50

Current Possible Score: 0   Max Score: 250   ℹ

monokai   ▼   Medium   ▼   Seek Help   ℹ   👁   ⛶

C++17 (gcc-9.2)   ▼

```cpp
 1   int Solution::removeDuplicates(vector<int> &A) {
 2       vector<int> v;
 3       for(int i=0;i<A.size();i++){
 4           if(i<A.size()-2 &&A[i]==A[i+2]){
 5               continue;
 6                   }
 7           else{
 8               v.push_back(A[i]);
 9           }
10       }
11       A.resize(v.size());
12       for(int i=0;i<v.size();i++){
13           A[i]=v[i];
14       }
15       return A.size();
16
17   }
18
```

Test with custom input   Test   Submit

Keyboard shortcuts: Test Ctrl + t   Save Ctrl + s   Submit Ctrl + Alt + s   Autocomplete Ctrl + Space

✔ **Correct Answer. You got 138/250 points!**

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u=http://example.org)

🔓 **All hints are now accessible without any penalty.**

💬 **Solution discussion thread has been unlocked below.**

🔥 **Congratulations! You have achieved your daily score goal.**

💡   **Next you should solve the problem**

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Hints

Hint 1 (/courses/1/topics/7/problems/remove-duplicates-from-
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Solution Approach (/courses/1/topics/7/problems/remove-
duplicates-from-sorted-array-ii/hints/332/)   🔓

Complete Solution (/courses/1/topics/7/problems/remove-
duplicates-from-sorted-array-ii/hints/333/)   🔓

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Discussion

Problem Discussion	Solution Discussion

Post a comment (https://discuss.interviewbit.com/session/sso?

This thread is for people who have not yet solved the problem. Please do not post solutions here.

yoavamir   🕐 11 days ago

Solution works on IDE but fails on tests   0

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on-ide-but-fails-on-tests)

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harshsahu8700   🕐 19 days ago

Easy, Readable and Efficient C++,   0

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and-efficient-c)

harshsahu8700

Before telling me that I had to do it in Constant space, let me tell you `vector<bool>` takes only one bit. cheers!!

```
 int Solution::removeDuplicates(vector<int> &A) { vec
tor<bool> checker (A.size(), 0); int p = INT_MIN; fo
r(int i=0;i<A.size();i++){ if(A[i] != p){ checker[i]
= 1; p = A[i]; if(A[i+1] == A[i] and i+1<A.size()) c
hecker[i+1] = 1; } } int size=0; for(int i =0;i<A.si
ze();i++){ if(checker[i] ==1){ A[size] = A[i]; size+
+; } } return size; }
```

gunjan-goyal_914   🕑 5 months ago

Python O(n) solution not getting
accepted   0

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> solution-not-getting-accepted)

tylerdurden   🕑 7 months ago

Why it is returning 0 0 on testcase 1 0   1

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> returning-0-0-on-testcase-1-0)

abhishek-sharma_570   🕑 8 months ago

Wrong expected output for the problem   1

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> expected-output-for-the-problem)

iitiansam   🕐 9 months ago

Failure for large test cases   0

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shruti2908   🕐 10 months ago

Error report in input format   1

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ashutosh-hathidara   🕐 about 1 year ago

O(n) solution is good enough   3

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ankit-joshi_871   🕐 about 1 year ago

Checker is buggy   2

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kaushal02   🕐 over 1 year ago

Modification of elements possible   1

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elements-possible)

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abshekpat   🕐 over 1 year ago

Can't find what's wrong with this submission   1

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whats-wrong-with-this-submission)

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jhaSuraj   🕐 over 1 year ago

Wrong answer on submission   2

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on-submission)

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nik-hil   🕐 about 2 years ago

Testing of code is wrong in Python   0

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guest_user_251   🕐 almost 3 years ago

By changing the original array there is TLE and you do not do that in your comple   0

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the-original-array-there-is-tle-and-you-do-not-do-that-in-your-
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guest_user_251   🕐 over 4 years ago

Anshuman Singh When I submit the code, it fails for an input, but works perfectly   4

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singh-when-i-submit-the-code-it-fails-for-an-input-but-works-
perfectly)

anshumansingh   🕐 almost 5 years ago

Please see, my solution works fine for the faling test case on IDE and on my mach   1

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