





Dashboard My courses

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CS23331-DAA-2024-CSE / 1-Finding Duplicates-O(n^2) Time Complexity, O(1) Space Complexity



1-Finding Duplicates-O(n^2) Time Complexity,O(1) Space Complexity

Started on	Sunday, 12 October 2025, 7:07 PM
State	Finished
Completed on	Sunday, 12 October 2025, 7:08 PM
Time taken	49 secs
Marks	1.00/1.00
Grade	4.00 out of 4.00 (100 %)

Question 1 | Correct Mark 1.00 out of 1.00 | Flag question

Find Duplicate in Array.

Given a read only array of n integers between 1 and n, find one number that repeats.

Input Format:

First Line - Number of elements

n Lines - n Elements

Output Format:

Element x - That is repeated

For example:

Input	Result	
5	1	

```
1 1 2 3 4
```

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
3 √ int main() {
        scanf("%d", &n);
        int arr[n];
            scanf("%d", &arr[i]);
       int slow = arr[0];
int fast = arr[0];
           slow = arr[slow];
            fast = arr[arr[fast]];
        } while (slow != fast);
        slow = arr[0];
        while (slow != fast) {
21 v
            slow = arr[slow];
            fast = arr[fast];
        printf("%d\n", slow);
        return 0;
28 }
```

	Input	Expected	Got	
~	11 10 9 7 6 5 1 2 3 8 4 7	7	7	*
~	5 1 2 3 4 4	4	4	~
~	5 1 1 2 3 4	1	1	~

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

Finish review

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Data retention summar