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/ [2-Finding Duplicates- \$O\(n\)\$  Time Complexity, \$O\(1\)\$  Space Complexity](#)

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<b>Started on</b>	Friday, 16 August 2024, 1:50 PM
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<b>State</b>	Finished
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<b>Completed on</b>	Friday, 16 August 2024, 2:19 PM
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<b>Time taken</b>	28 mins 34 secs
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<b>Marks</b>	1.00/1.00
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<b>Grade</b>	4.00 out of 4.00 (100%)
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Question **1**

Correct

Mark 1.00 out of 1.00

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 2 3 4	1

**Answer:** (penalty regime: 0 %)

```

1  #include<stdio.h>
2  int main()
3  {
4      int n,r=0,s=0;
5      scanf("%d",&n);
6      int a[n];
7      for(int i=0;i<n;i++)
8      {
9          scanf("%d",&a[i]);
10     }
11     s=n*(n-1)/2;
12     for(int i=0;i<n;i++)
13     {
14         r=r+a[i];
15     }
16     printf("%d",r-s);
17 }
```

	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.

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

Jump to...

3-Print Intersection of 2 sorted arrays- $O(m*n)$  Time Complexity, $O(1)$  Space Complexity ▶