

[Dashb...](#) / [My.cou...](#) / [CS23331-DAA-202...](#) / [Competitive Progra...](#) / [2-Finding Duplicates-O\(n\) Time Complexity,O\(1\) Spac...](#)

Started on	Monday, 19 August 2024, 10:44 AM
State	Finished
Completed on	Monday, 19 August 2024, 11:31 AM
Time taken	47 mins 12 secs
Marks	1.00/1.00
Grade	4.00 out of 4.00 (100%)

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
3  int main()
4  {
5      int n,key,m;
6      scanf("%d",&n);
7      int a[10];
8      for(int i=0;i<n;i++)
9      {
10         scanf("%d",&m);
11         key=m%10;
12         if(a[key]==m)
13         {
14             printf("%d",m);
15             break;
16         }
17         a[key]=m;
18     }
19
20 }
```

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