
Started on Monday, 27 October 2025, 3:29 PM

State Finished

Completed on Monday, 27 October 2025, 3:43 PM

Time taken 14 mins 34 secs

Marks 1.00/1.00

Grade **10.00** out of 10.00 (**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  int main()
3  {
4      int n;
5      scanf("%d",&n);
6      int a[n];
7      for(int i=0;i<n;i++)
8          scanf("%d",&a[i]);
9      int s=a[0],f=a[0];
10     while (1){
11         s=a[s];
12         f=a[a[f]];
13         if (s==f)
14             break;
15     }
16     s=a[0];
17     while (s!=f){
18         s=a[s];
19         f=a[f];
20     }
21     printf("%d",s);
22 }
```

	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.