<u>Dashbo</u>... / <u>My cour</u>... / <u>CS23331-DAA-2023-</u>... / <u>Competitive Program</u>... / <u>1-Finding Duplicates-O(n^2) Time Complexity,O(1) Space Com</u>...

Started on	Tuesday, 8 October 2024, 2:10 PM
State	Finished
Completed on	Tuesday, 8 October 2024, 2:21 PM
Time taken	10 mins 23 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 1 2 3 4			

Answer: (penalty regime: 0 %)

```
#include <stdio.h>
 2
    #include <stdlib.h>
 3 v int main() {
 4
         int n;
         scanf("%d", &n);
 5
 6
         int arr[n];
 7
         for (int i = 0; i < n; i++) {</pre>
 8
             scanf("%d", &arr[i]);
 9
10
11
12 🔻
         for (int i = 0; i < n; i++) {</pre>
             int index = abs(arr[i]) - 1;
13
14
             if (arr[index] < 0) {</pre>
                 printf("%d\n", index + 1);
15
16
                 return 0;
17
18
             arr[index] = -arr[index];
19
         }
20
         return 0;
21
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.

■ 5-Implementation of Quick Sort

Jump to...

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