Started on	Tuesday, 27 August 2024, 2:19 PM
State	Finished
Completed on	Tuesday, 8 October 2024, 2:25 PM
Time taken	42 days
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 %)

```c
#include <stdio.h>

int main() {
    int n;
    scanf("%d", &n);
    int arr[n];

    for (int i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }

    int printed[n];
    int printedIndex = 0;

    for (int i = 0; i < n; i++) {
        int count = 0;

        for (int j = 0; j < n; j++) {
            if (arr[i] == arr[j]) {
                count++;
            }
        }

        if (count > 1) {
            int alreadyPrinted = 0;
            for (int k = 0; k < printedIndex; k++) {
                if (arr[i] == printed[k]) {
                    alreadyPrinted = 1;
                    break;
                }
            }
            if (!alreadyPrinted) {
                printf("%d\n", arr[i]);
                printed[printedIndex++] = arr[i];
            }
        }
    }

    return 0;
}
```

	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.

◄ 4-DP-Longest non-decreasing Subsequence

Jump to...

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