

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 %)

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

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

	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	✓