

Given a read only array of  $n + 1$  integers between 1 and  $n$ , find one number that repeats in linear time using less than  $O(n)$  space and traversing the stream sequentially  $O(1)$  times.

**Sample Input:**

```
[3 4 1 4 1]
```

**Sample Output:**

```
1
```

If there are multiple possible answers ( like in the sample case above ), output any one.