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 v int main(){
    int a;
scanf("%d",&a);
int arr[a];
 3
 4
 5
 6
    int b = 0, c = 0;
 7 v for(int i=0;i<a;i++){</pre>
8
      scanf("%d",&arr[i]);
9
      c += arr[i];
10
11 v
     for(int i=1;i<a;i++){
12
      b += i;
13
14
     int ans = c-b;
     printf("%d",ans);
15
16 }
```

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```
1 #include <stdio.h>
2 v int f(int arr[], int n) {
     int s = arr[0];
3
4
     int fa= arr[0];
5 *
    do {
6
      s = arr[s];
7
      fa= arr[arr[fa]];
    } while (s != fa);
8
9
    s= arr[0];
10 v while (s!= fa) {
11
      s= arr[s];
12
      fa= arr[fa];
13
14
    return s;
15
16 v int main() {
17 int n;
   scanf("%d", &n);
18
19
    int arr[n];
20 v for (int i = 0; i < n; i++) {
      scanf("%d", &arr[i]);
21
22
    int d = f(arr, n);
23
    printf("%d\n", d);
24
25
     return 0;
26
27 }
```