Competitive Programming

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Program – 1
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Aim:

Given a read-only array of integers between 1 and nnn, find one number that repeats. Each element is guaranteed to be in the range from 1 to nnn, and there is exactly one duplicate element.

Input:

- 1. The first line contains the integer nnn, which is the number of elements in the array.
- 2. The next nnn lines contain nnn integers, each representing an element of the array.

Code:

```
#include<stdio.h>
int main(){
  int a;
  scanf("%d",&a);
  int b[a];
  for(int i=0;i<a;i++){
    scanf("%d",&b[i]);
  }
  int flag=0;
  for(int i=0;i<a;i++){
    for(int j=i+1;j<a;j++){
      if(b[i]==b[j]){
         printf("%d",b[i]);
         flag=1;
         break;
      }
```

Output:

	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	~