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Section - 1

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Find the Missing Number

Problem Statement

You are given a list of N-1 elements having values from 1 to N with one element missing. Your task is to find out the missing number. The given list of N-1 elements may not be a sorted list.

Note: The sum of numbers from 1 to N is calculated as $(n*(n+1))/2$

Input Format

The first line contains N.

Second-line contains N-1 space-separated integers

Output Format

Print the missing number.

C (gcc 4.8.3) ▼



▶ Compile & Run

O/P »

```
1  #include<stdio.h>
2  #include<limits.h>
3
4  int main(){
5      |
6      // approach - 2 (simplest)
7      // input
8      int n;
9      scanf("%d",&n);
10     int arr[n];
11     int i;
12
13     int sumOfFirstNnumber = (n*(n+1))/2;
14     int currSum = 0;
15     for(i=0; i < n-1; i++){ // only n-1 elements are provided from user
16         int ele;
17         scanf("%d",&ele);
18         currSum += ele;
19     }
20
21     int missingEle = sumOfFirstNnumber - currSum;
22     printf("%d",missingEle);
23
24
25
26
27
28
29     /* // app-1 (working)
30     // input
31     int n;
32     scanf("%d",&n);
33     int arr[n];
34
35
```

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