Programming Assignment-2: Missing Number

Due on 2020-04-09, 23:59 IST

Given a list of \( n-1 \) numbers ranging from 1 to \( n \), your task is to find the missing number. There are no duplicates.

Input Format:
The first line contains \( n-1 \) numbers with each number separated by a space.

Output Format:
Print the missing number

Example:

Input:
1 2 4 6 3 7 8

Output:
5

Explanation:
In the above list of numbers 5 is missing and hence 5 is the input

Sample Test Cases

<table>
<thead>
<tr>
<th>Test Case</th>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Case 1</td>
<td>1 2 4 5 6 7 8 9</td>
<td>3</td>
</tr>
<tr>
<td>Test Case 2</td>
<td>2 3 4 5 6 7</td>
<td>1</td>
</tr>
<tr>
<td>Test Case 3</td>
<td>1 2 3 4 5</td>
<td>6</td>
</tr>
</tbody>
</table>
The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

Sample solutions (Provided by instructor)

```python
# getMissingNo takes list as argument
def getMissingNo(A):
    n = len(A)
    total = (n+1)*(n+2)/2
    sum_of_A = sum(A)
    return total - sum_of_A

# Driver program to test above function
li = []
li = list(map(int, input().split()))
miss = getMissingNo(li)
print(int(miss))
```

Test Case 4
1 3 2 5 4
Test Case 5
2 3 4 5 6 1
Test Case 6
1 3 4 5 6 7 8 2
Week 11

Week 12

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Week 10 Feedback (unit? unit=189&lesson=318)