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[Announcements \(announcements\)](#)
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[Progress \(student/home\)](#) [Mentor \(student/mentor\)](#)

Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

● [FLAMES - Part 01 \(unit?\)](#)

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

	Input	Output
Test Case 1	1 2 4 5 6 7 8 9	3
Test Case 2	2 3 4 5 6 7	1
Test Case 3	1 2 3 4 5	6

unit=189&lesson=190)	Test Case 4	1 3 2 5	4
<input type="radio"/> FLAMES - Part 02 (unit? unit=189&lesson=191)	Test Case 5	2 3 4 5 6	1
<input type="radio"/> FLAMES - Part 03 (unit? unit=189&lesson=192)	Test Case 6	1 3 4 5 6 7 8	2
<input type="radio"/> FLAMES - Part 04 (unit? unit=189&lesson=193)	The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.		
<input type="radio"/> FLAMES - Part 05 (unit? unit=189&lesson=194)	Sample solutions (Provided by instructor)		
<input type="radio"/> FLAMES - Part 06 (unit? unit=189&lesson=195)	<pre> 1 # getMissingNo takes list as argument 2 def getMissingNo(A): 3 n = len(A) 4 total = (n+1)*(n+2)/2 5 sum_of_A = sum(A) 6 return total - sum_of_A 7 8 # Driver program to test above function 9 li=[] 10 li= list(map(int, input ().split ())) 11 miss = getMissingNo(li) 12 print(int(miss)) 13 </pre>		
<input type="radio"/> Data Compression - Part 01 (unit? unit=189&lesson=196)			
<input type="radio"/> Data Compression - Part 02 (unit? unit=189&lesson=197)			
<input type="radio"/> Data Compression - Part 03 (unit? unit=189&lesson=198)			
<input type="radio"/> Data Compression - Part 04 (unit? unit=189&lesson=199)			
<input type="radio"/> Data Compression - Part 05 (unit? unit=189&lesson=200)			
<input type="radio"/> Quiz : Assignment 10 (assessment? name=286)			
<input type="radio"/> Programming Assignment-1: Digit (/noc20_cs35/progassignment? name=315)			
<input type="radio"/> Programming Assignment-2: Missing Number (/noc20_cs35/progassignment? name=316)			

Programming
Assignment-3:
Rearrangement
(/noc20_cs35/progassignment?
name=317)

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

Week 11

Week 12

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