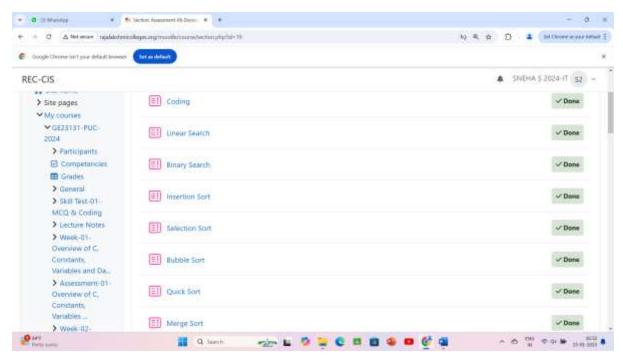
Week 6:



You are given a sequence of n-1 distinct positive integers, all of which are less than or equal to a integer 'n'. You have to find the integer that is missing from the range [1,2, . . . n]. Solve the question without using arrays.

Input Format:

One line containing the integer 'n' where 2<=n<=10,000

First line is followed by a sequence of 'n-1' distinct positive integers. Note that the sequence may not be in any particular order.

Output Format:

One line containing the missing number

Sample Test Cases

Test Case 1

Input

12

Output

3

Test Case 2

Input

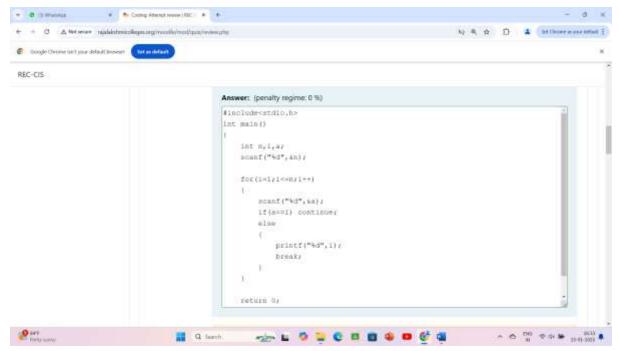
4

134

Output

2

Input	Result
3	3
12	
4	2
134	



A Teacher came to the class with a large box that has several coins. Each coin has a number Printed on it. Before Coming to the class, she ensured that all the coins occurs an even number of times. However, while coming to the class one coin fell down and got lost. She wants to find out the number of missing coin (Solve the question without using arrays).

Input Format:

Take Number from stdin which no of coins n.

Take n-1 array of Integers from stdin.

Output Format:

Print the number of coin which is missed.

Example Input:

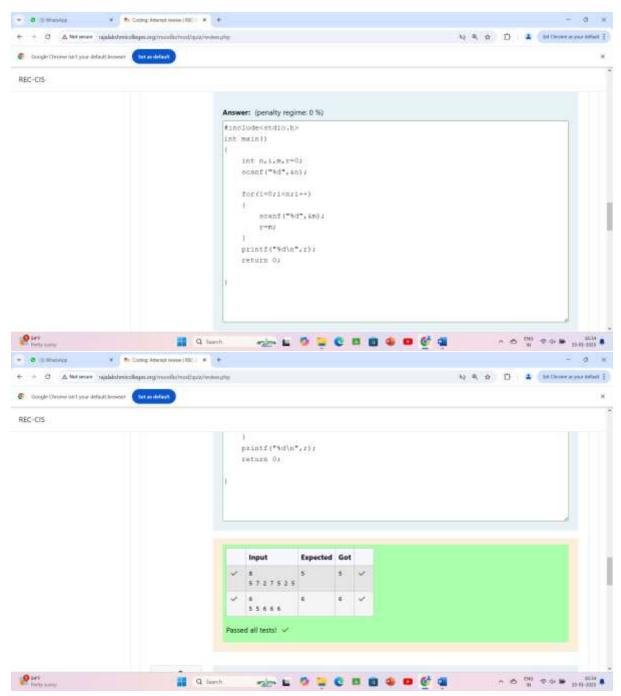
8

5727525

Output:

5

Input	Result
8	5
5727525	
6	6
55666	



An abundant number is a number for which the sum of its proper divisors is greater than the number itself.

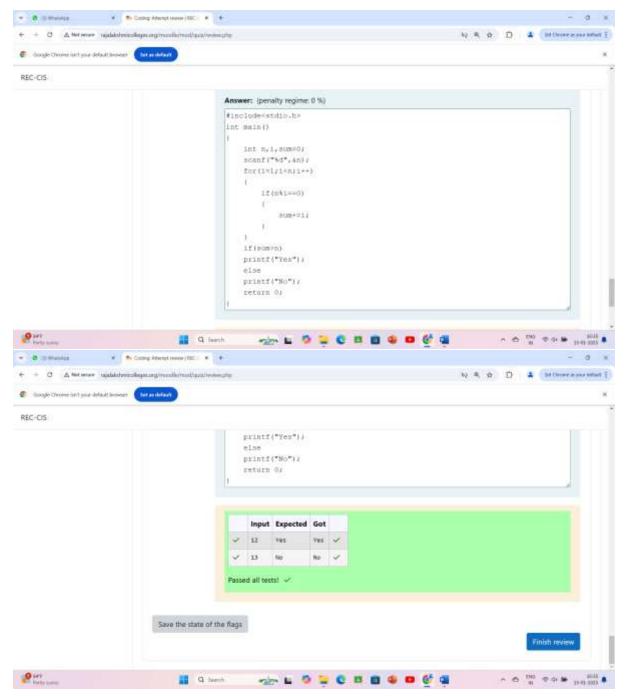
Proper divisors of the number are those that are strictly lesser than the number.

Input Format:

Take input an integer from stdin

Output Format:

Print Ye	s if give	n number is Abundant. Otherwise, print No
Example	e input:	
12		
Output	:	
Yes		
Explana	ntion	
+ 6 = 16	S. Since	isors of 12 are: 1, 2, 3, 4, 6, whose sum is 1 + 2 + 3 + 4 sum of proper divisors is greater than the given abundant number.
Example	e input:	
13		
Output	:	
No		
Explana	ntion	
•	is not g	isors of 13 is: 1, whose sum is 1. Since sum of proper greater than the given number, 13 is not an abundant
For exa	mple:	
Input	Result	
12	Yes	
13	No	



Sample Input 1:

5

30 40 50 20 10

20

Sample Output 1:

Element found at location: 3

Sample Input 2:

5

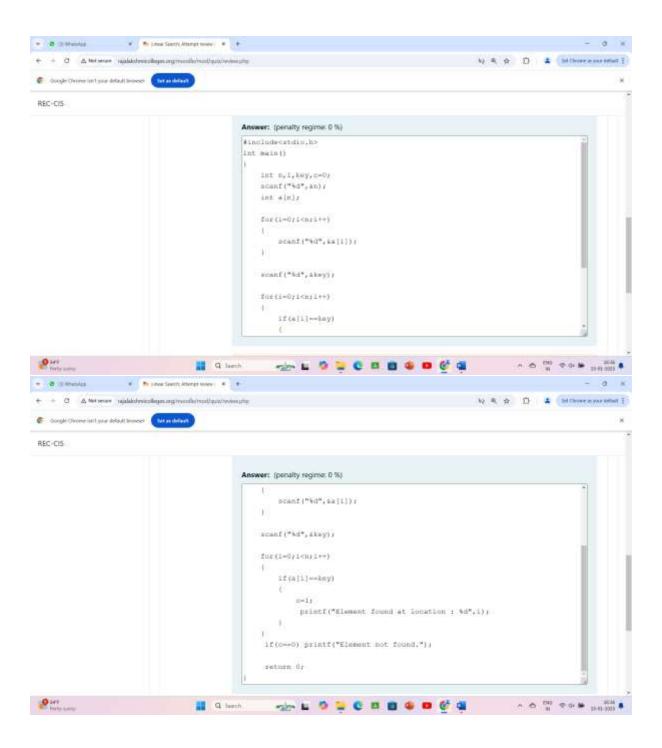
30 40 50 20 10

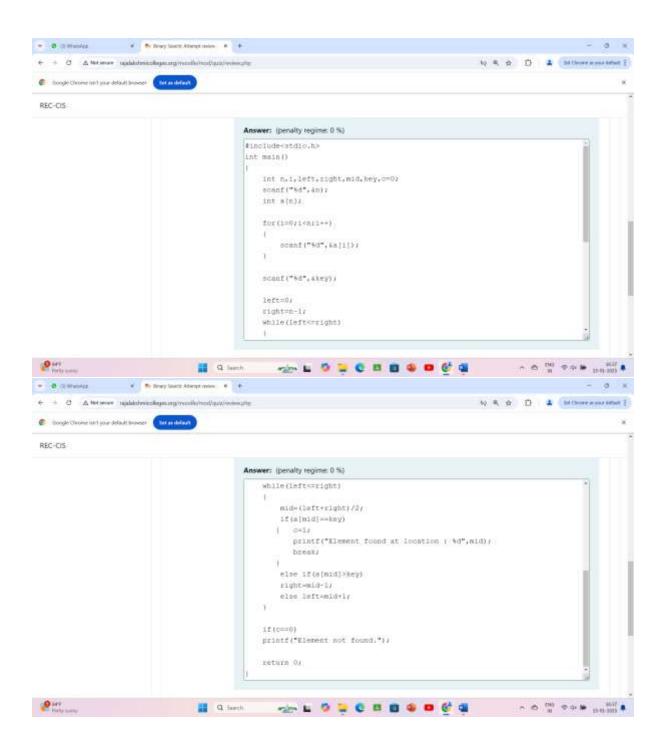
55

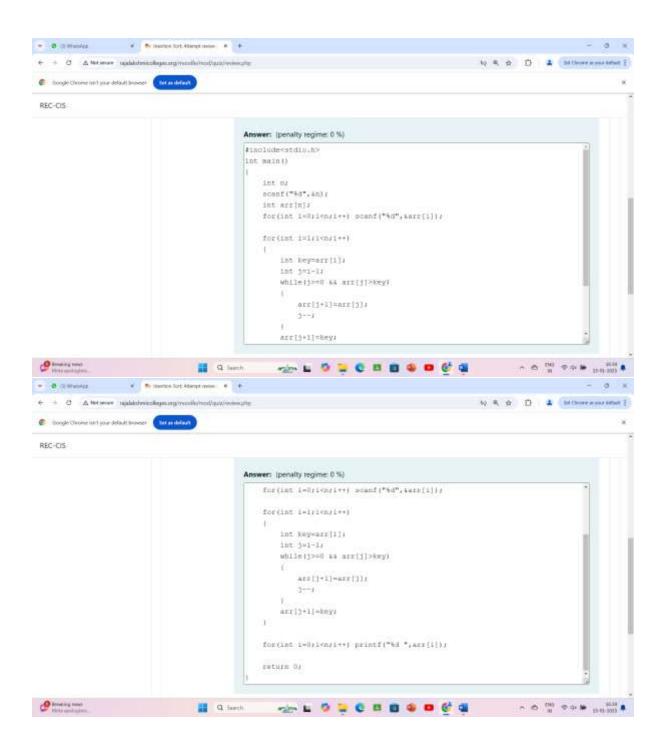
Sample Output 2:

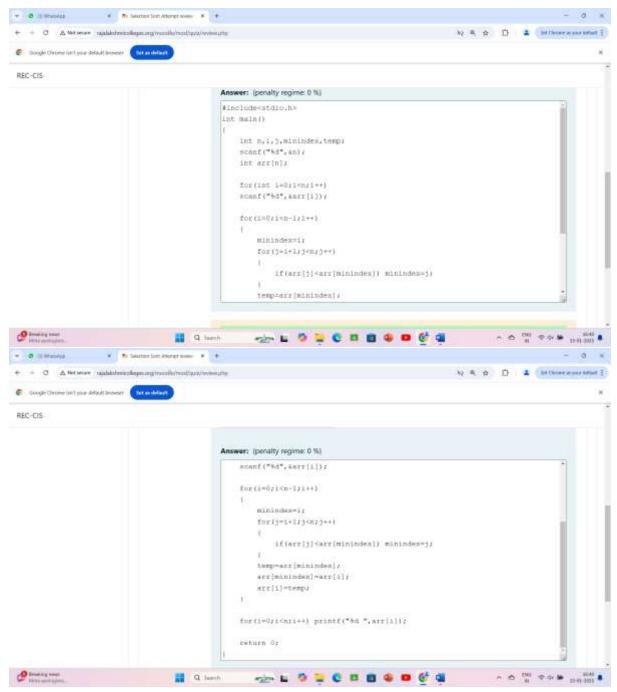
Element not found.

Input	Result
5 30 40 50 20 10 20	Element found at location : 3
5 30 40 50 20 10 55	Element not found.









Sample Input:

5

30 40 50 20 10

Sample Output:

10 20 30 40 50

Input	Result
5	10 20 30 40 50
30 40 50 20 10	

