

# Rising Star

Time Limit	1s
Memory Limit	64MB

## Description



Good News! Rising Star is starting an audition in Bandung! It's time to shine! You want to join the audition. You know there is  $N$  contestants, numbered from 1 to  $N$ .

The jury is very high-skilled singer that can score a singing skill with a number from 1 to  $10^5$ . If the  $i$ -th contestant's singing skill is greater than all contestants with number  $j$  where  $j < i$ , the contestant will pass to the next stage. However, if the  $i$ -th contestant's singing skill is greater than sum all other  $j$ -th contestant's singing skill, where  $j < i$ , the contestant will not only pass to the next stage, but he/she will receive a golden ticket to the final!

Now you hear there are  $A$  contestants that pass to the next stage and  $B$  contestants that get golden ticket. Now you wonder what is the sequence of the contestants' singing skill.

## Input Format

The first and only line will consists of  $N$ ,  $A$ , and  $B$  separated by single space.

## Output Format

Output a line consists of  $t_1, t_2, t_3, \dots, t_N$ . If there are more than one possible sequence, output any of them. If there are no possible sequence, output a single number -1.

## Constraint

- $1 \leq N \leq 100$
- $0 \leq A, B \leq 15$
- $1 \leq t_1, t_2, \dots, t_N \leq 50.000$
- $N > A + B$

### Sample Input 1

10 2 3

### Sample Output 1

5 1 2 7 16 35 46 4 350 80

### Sample Input 2

5 0 0

### Sample Output 2

10 10 6 6 5

### Explanation

On the first example, the contestants that pass to the next stage (but dont get golden ticket) is (marked with bold) 5 1 2 **7** 16 35 **46** 4 350 80. The contestants that get the the golden ticket are 5 1 2 7 **16 35** 46 4 **350** 80.