#### Description

I have two really big positive numbers. Can you help me compute their difference?

## Input

The first line contains a single integer  $1 \le n \le 100,000$  denoting the number of digits in each number. The second line contains n space-separated digits (from 0 to 9), denoting the value of the first number. The third line contains the second n-digit number in the same format. Any digit may be 0.

It is guaranteed that the first number is at least as large as the second.

## Output

Output a single line containing n space-separated digits, denoting the difference of the two numbers. Leading digits may be 0.

## Sample Input 1

-	1		
:	1		
(	0		

## Sample Output 1

```
1
```

## Sample Input 2

```
2
9 5
9 5
```

#### Sample Output 2

```
0 0
```

#### Sample Input 3

```
3
9 9 9
9 9 9
```

## Sample Output 3

```
0 0 0
```

## Sample Input 4

3 1 0 0 0 9 9

# Sample Output 4

0 0 1