

Add two numbers in the given base without converting into base.

Sample Input-1

123 13 4

Sample Output-1

202

Sample Input-2

1010 11001 2

Sample Output-2

100011

Given a string s, find the length of the longest substring without repeating characters.

Example 1:

Input: s = "abcabcbb"

Output: 3

Explanation: The answer is "abc", with the length of 3.

Example 2:

Input: s = "bbbbbb"

Output: 1

Explanation: The answer is "b", with the length of 1.

Example 3:

Input: s = "pwwkew"

Output: 3

Explanation: The answer is "wke", with the length of 3.

Notice that the answer must be a substring, "pwke" is a subsequence and not a substring.

Form a number system with only 3 and 4. Find the nth number of the number system. Eg.) The numbers are: 3, 4, 33, 34, 43, 44, 333, 334, 343, 344, 433, 434, 443, 444, 3333, 3334, 3343, 3344, 3433, 3434, 3443, 3444 ...

Check whether a given mathematical expression is valid.

Eg.) Input : (a+b)(a*b)

Output : Valid

Input : (ab)(ab+)

Output : Invalid

Input : ((a+b)

Output : Invalid

Write a program to give the following output for the given input

Eg 1: Input: a1b10

Output: abbbbbbbbbb

Eg: 2: Input: b3c6d15

Output: bbbcccccccccccccccccccc

The number varies from 1 to 99.

To find the print the pattern:

Ip: n=5

Op:

1

1 1

2 1

1 2 1 1

1 1 1 2 2 1

Spiral printing.

O/P

4444444

4333334

4322234

4321234

4322234

4333334

4444444
