

1. Program

< 1 >



Question 1

🔖 Revisit Later

How to Attempt?

Addition using Strings: Write a function that takes two numbers in string format and forms a string containing the sum (addition) of these two numbers.

Assumption(s):

- The input strings will contain only numeric digits
- The input strings can be of any large lengths
- The lengths of the two input string need not be the same
- The input strings will represent only positive numbers

For example –

- If input strings are "1234" and "56", the output string should be "1290"
- If input strings are "56" and "1234", the output string should be "1290"
- If input strings are "123456732128989543219" and "987612673489652", the output string should be "123457719741663032871"

NOTE: In Java & C#, this logic can be easily implemented using BigInteger. However for the sake of enhancing your programming skills, you are recommended to solve this question without using BigInteger.

```
24 Attempted: 1/1
25 int a=Character.getNumericValue(input1.charAt(len1-1-1));
26 int b=0;
27 if(j>=0)
28 {
29     b=Character.getNumericValue(input2.charAt(j));
30     j--;
31 }
32 int sum=a+b+carry;
33 carry=sum/10;
34 int init=sum%10;
35 str=Integer.toString(init)+str;
36 if(i==len1-1&&carry>0)
37 {
38     str=Integer.toString(carry)+str;
39 }
```

☐ Use Custom Input

①

Compile and Test

Submit Code

Code Execution Code History

0/5 - Graded Test Cases Failed

✔ TC 5

✔ TC 4

✔ TC 3

✔ TC 2

✔ TC 1

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JAVA7

Compiler: Java - 1.7

```
1 import java.io.*;
2 import java.util.*;
3
4 // Read only region start
5 class UserMainCode
6 {
7
8     public String addNumberStrings(String input1,String input2){
9         // Read only region end
10         int carry=0;
11         if(input1.length()<input2.length())
12         {
13             String temp="";
14             temp=input1;
15             input1=input2;
16             input2=temp;
17         }
18         int len1=input1.length();
19         int len2=input2.length();
20         String str="";
21         int j=len2-1;
22         for(int i=0;i<len1;i++)
23         {
24             int a=Character.getNumericValue(input1.charAt(len1-1-i));
25             int b=0;
26             if(j>=0)
27             {
28                 b=Character.getNumericValue(input2.charAt(j));
29                 j--;
30             }
31             int sum=a+b+carry;
32             carry=sum/10;
33             int init=sum%10;
34             str=Integer.toString(init)+str;
35             if(i==len1-1&&carry>0)
36             {
37                 str=Integer.toString(carry)+str;
38             }
39         }
40     }
41 }
```

☐ Use Custom Input

①

Compile and Test

Submit Code