**The C# Challenge**

**1.** Write a C# Sharp program to compute the sum of the two given integer values. If the two values are the same, then return triple their sum.

*Sample Input*:  
1, 2  
3, 2  
2, 2  
*Expected Output*:

3

5

12

**2.** Write a C# Sharp program to get the absolute difference between n and 51. If n is greater than 51 return triple the absolute difference.

*Sample Input*:  
53  
30  
51  
*Expected Output*:

6

21

0

**3.** Write a C# Sharp program to check two given integers, and return true if one of them is 30 or if their sum is 30.

*Sample Input*:  
30, 0  
25, 5  
20, 30  
20, 25  
*Expected Output*:

True

True

True

False

**4.** Write a C# Sharp program to check a given integer and return true if it is within 10 of 100 or 200.

*Sample Input*:  
103  
90  
89

203

*Expected Output*:

True

True

False

True

**5.** Write a C# Sharp program to create a new string where 'if' is added to the front of a given string. If the string already begins with 'if', return the string unchanged.

*Sample Input*:  
"if else"  
"else"  
*Expected Output*:

if else

if else

**6.** Write a C# Sharp program to remove the character in a given position of a given string. The given position will be in the range 0.. string length -1 inclusive.

*Sample Input*:  
"Python", 1  
"Python", 0  
"Python", 4  
*Expected Output*:

Pthon

ython

Pythn

**7.** Write a C# Sharp program to exchange the first and last characters in a given string and return the new string.

*Sample Input*:  
"abcd"  
"a"  
"xy"  
*Expected Output*:

dbca

a

yx

**8.** Write a C# Sharp program to create a new string which is 4 copies of the 2 front characters of a given string. If the given string length is less than 2 return the original string.

*Sample Input*:  
"C Sharp"  
"JS"  
"a"

*Expected Output*:

C C C C

JSJSJSJS

a

**9.** Write a C# Sharp program to create a new string with the last char added at the front and back of a given string of length 1 or more.

*Sample Input*:  
"Red"  
"Green"  
"1"  
*Expected Output*:

dRedd

nGreenn

111

**10.** Write a C# Sharp program to check if a given positive number is a multiple of 3 or a multiple of 7.

*Sample Input*:  
3  
14  
12  
37  
*Expected Output*:

True

True

True

False

**11.** Write a C# Sharp program to check if one given temperatures is less than 0 and the other is greater than 100.

*Sample Input*:  
120, -1  
-1, 120  
2, 120  
*Expected Output*:

True

True

False

**12.** Write a C# Sharp program to check two given integers whether either of them is in the range 100 to 200 inclusive.

*Sample Input*:   
100, 199  
250, 300  
105, 190  
*Expected Output*:

True

False

True

**13.** Write a C# Sharp program to check whether three given integer values are in the range 20 to 50 inclusive. Return true if 1 or more of them are in the said range otherwise false.

*Sample Input*:  
11, 20, 12  
30, 30, 17  
25, 35, 50  
15, 12, 8

*Expected Output*:

True

True

True

False

**14.** Write a C# Sharp program to check whether two given integer values are in the range 20 to 50 inclusive. Return true if 1 or other is in the said range otherwise false.

*Sample Input*:  
20, 84  
14, 50  
11, 45  
25, 40  
*Expected Output*:

True

True

True

False

**15.** Write a C# Sharp program to check if a string 'yt' appears at index 1 in a given string. If it appears return a string without 'yt' otherwise return the original string.

*Sample Input*:  
"Python"  
"ytade"  
"jsues"  
*Expected Output*:

Phon

ytade

jsues

**16.** Write a C# Sharp program to check the largest number among three given integers.

*Sample Input*:  
1,2,3  
1,3,2  
1,1,1  
1,2,2  
*Expected Output*:

3

3

1

2

**17.** Write a C# Sharp program to check which number nearest to the value 100 among two given integers. Return 0 if the two numbers are equal.

*Sample Input*:  
78, 95  
95, 95  
99, 70  
*Expected Output*:

95

0

99

**18.** Write a C# Sharp program to check whether two given integers are in the range 40 to 50 inclusive, or they are both in the range 50 to 60 inclusive.

*Sample Input*:  
78, 95  
25, 35  
40, 50  
55, 60  
*Expected Output*:

False

False

True

True

**19.** Write a C# Sharp program to find the larger value from two positive integer values that is in the range 20..30 inclusive, or return 0 if neither is in that range.

*Sample Input*:  
78, 95  
20, 30  
21, 25  
28, 28  
*Expected Output*:

0

30

25

28

**20.** Write a C# Sharp program to check if a given string contains between 2 and 4 'z' character.

*Sample Input*:  
"frizz"  
"zane"  
"Zazz"  
"false"  
*Expected Output*:

True

False

True

False

**21.** Write a C# Sharp program to check if two given non-negative integers have the same last digit.

*Sample Input*:  
123, 456  
12, 512  
7, 87  
12, 45  
*Expected Output*:

False

True

True

False

**22.** Write a C# Sharp program to convert the last 3 characters of a given string to upper case. If the length of the string has less than 3 then uppercase all the characters.

*Sample Input*:  
"Python"  
"Javascript"  
"js"  
"PHP"  
*Expected Output*:

PytHON

JavascrIPT

JS

PHP

**23.** Write a C# Sharp program to create a new string which is n (non-negative integer) copies of a given string.

*Sample Input*:  
"JS", 2  
"JS", 3  
"JS", 1  
*Expected Output*:

JSJS

JSJSJS

JS

**24.** Write a C# Sharp program to test if a given non-negative number is a multiple of 13 or it is one more than a multiple of 13.

Sample Input:  
13  
14  
27  
41  
Expected Output:

True

True

True

False

**25.** Write a C# Sharp program to compute the sum of two given non-negative integers x and y as long as the sum has the same number of digits as x. If the sum has more digits than x then return x without y.

Sample Input:  
4, 5  
7, 4  
10, 10  
Expected Output:

9

7

20