Started on	Wednesday, 9 April 2025, 10:08 AM	
State	Finished	
Completed on	Wednesday, 9 April 2025, 10:31 AM	
Time taken	23 mins 41 secs	
Grade	80.00 out of 100.00	

Question 1
Incorrect
Mark 0.00 out of 20.00

Write a short recursive Python function that finds the minimum and maximum values in a sequence without using any loops.

For example:

Input	Result
4	51
51	
20	
31	
47	
4	20
12	
20	
5	
6	

Answer: (penalty regime: 0 %)

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def minmax(x,y,result)

```
Syntax Error(s)

File "__tester__.python3", line 1

def minmax(x,y,result)

SyntaxError: invalid syntax

Marks for this submission: 0.00/20.00.
```

Question 2

Correct

Mark 20.00 out of 20.00

LONGEST PALINDROMIC SUBSEQUENCE

Given a sequence, find the length of the longest palindromic subsequence in it.

For example:

Input	Result				
ABBDCACB	The length of the LPS is 5				

Answer: (penalty regime: 0 %)

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	Input	Expected	Got	
~	ABBDCACB	The length of the LPS is 5	The length of the LPS is 5	~
~	ВВАВСВСАВ	The length of the LPS is 7	The length of the LPS is 7	~
~	cbbd	The length of the LPS is 2	The length of the LPS is 2	~
~	abbab	The length of the LPS is 4	The length of the LPS is 4	~

Passed all tests! 🗸

Correct

Question **3**Correct

Mark 20.00 out of 20.00

Create a python program to find the length of longest common subsequence using naive recursive method

For example:

Input	Result
AGGTAB GXTXAYB	Length of LCS is 4

Answer: (penalty regime: 0 %)

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```
def lcs(x,y,m,n):
    if m==0 or n==0:
        return 0
    elif x[m-1]==y[n-1]:
        return 1+lcs(x,y,m-1,n-1)
    else:
        return max(lcs(x,y,m,n-1),lcs(x,y,m-1,n))
X = input()
Y = input()
print ("Length of LCS is ", lcs(X , Y, len(X), len(Y)) )
```

	Input Expected		Got	
~	AGGTAB GXTXAYB	Length of LCS is 4	Length of LCS is 4	~
~	saveetha engineering	Length of LCS is 2	Length of LCS is 2	~

Passed all tests! 🗸

Question 4
Correct
Mark 20.00 out of 20.00

Create a Python program to find longest common substring or subword (LCW) of two strings using dynamic programming with bottom-up approach.

A string r is a substring or subword of a string s if r is contained within s. A string r is a common substring of s and t if r is a substring of both s and t. A string r is a longest common substring or subword (LCW) of s and t if there is no string that is longer than r and is a common substring of s and t. The problem is to find an LCW of two given strings.

For example:

Test	Input	Result
lcw(u, v)	bisect trisect	Longest Common Subword: isect

Answer: (penalty regime: 0 %)

Reset answer

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```
def lcw(x,y):
    m=len(x)
    n=len(y)
    dp=[[0]*(n+1) for _ in range(m+1)]
    for i in range (1, m+1):
        for j in range (1, n+1):
            if x[i-1] == y[j-1]:
                dp[i][j]=1+dp[i-1][j-1]
            else:
                dp[i][j]=0
    maxl=0
    end i=0
    end_j=0
    for i in range (1, len(x) + 1):
        for j in range(1, len(y) + 1):
            if dp[i][j]>maxl:
                maxl=dp[i][j]
                end_i=i
```

	Test	Input	Expected	Got	
~	lcw(u, v)	bisect trisect	Longest Common Subword: isect	Longest Common Subword: isect	~
~	lcw(u, v)	director conductor	Longest Common Subword: ctor	Longest Common Subword: ctor	~

Passed all tests! 🗸

```
Question 5
Correct
Mark 20.00 out of 20.00
```

Create a python program to find the Edit distance between two strings using dynamic programming.

For example:

Input	Result
Cats Rats	No. of Operations required : 1

Answer: (penalty regime: 0 %)

Reset answer

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	Input	Expected	Got	
~	Cats Rats	No. of Operations required : 1	No. of Operations required : 1	~
~	Saturday Sunday	No. of Operations required : 3	No. of Operations required : 3	~

Passed all tests! 🗸