Started on State
 Monday, 5 May 2025, 10:51 AM

 State
 Finished

 Completed on Time taken
 Monday, 5 May 2025, 3:48 PM

 Overdue
 4 hours 56 mins

 Grade
 80.00 out of 100.00

Question 1
Correct
Mark 20.00 out of 20.00
F Flag question

Create a python program to find the longest palindromic substring using optimal algorithm Expand around center.

For example:

Test	Input	Result
findLongestPalindromicSubstring(s)	samsunggnusgnusam	sunggnus

Answer: (penalty regime: 0 %)

```
Reset answer
 19
 20
             for i in range(length):
 21
 22
                  palindrome1 = expand(s, i, i)
 23
 24
                  palindrome2 = expand(s, i, i + 1)
 25
 26
                   \begin{tabular}{ll} if $len(palindrome1) > len(palindrome2) $ and $len(palindrome1) > (end - start): \\ \end{tabular} 
 27
                  start = i - len(palindrome1) // 2
end = i + len(palindrome1) // 2
elif len(palindrome2) > (end - start):
start = i - len(palindrome2) // 2 + 1
 28
 29
 30
 31
 32
                       end = i + len(palindrome2) // 2
 33
 34
             return s[start:end + 1]
 35
       if __name__ == '__main__':
 36
 37
 38
            s = input()
 39
 40
            print(findLongestPalindromicSubstring(s))
```

	Test	Input	Expected	Got	
	findLongestPalindromicSubstring(s)	samsunggnusgnusam	sunggnus	sunggnus	
	findLongestPalindromicSubstring(s)	welcomeindiaaidni	indiaaidni	indiaaidni	

Passed all tests!

Correct

Marks for this submission: 20.00/20.00.

Question **2**Not answered
Mark 0.00 out of 20.00

F Flag question

Write a Python Program to print the fibonacci series upto n_terms using Recursion.

For example:

Input	Result	
10	Fibonacci 0 1 1 2 3 5 5 8 13 21 34	series:
5	Fibonacci 0 1 1 2 3	series:
7	Fibonacci 0 1 1 2 3 5	series:

Answer: (penalty regime: 0 %)

Question **3**Correct
Mark 20.00 out of 20.00

 $\operatorname{\mathbb{F}}$ Flag question

Write a Python Program to find longest common subsequence using Dynamic Programming

Answer: (penalty regime: 0 %)

```
def longest_common_subsequence_length(X, Y):
 2
         m = len(X)

n = len(Y)
 3
         # Create a 2D table to store the lengths of LCSs
         dp = [[0] * (n + 1) for _ in range(m + 1)]
         # Fill the dp table using bottom-up approach
         for i in range(1, m + 1):
              for j in range(1, n + 1):
    if X[i - 1] == Y[j - 1]:
        dp[i][j] = dp[i - 1][j - 1] + 1
10
11
12
                   else:
13
                       dp[i][j] = max(dp[i - 1][j], dp[i][j - 1])
14
15
16
         return dp[m][n]
17
18
     # Example input
    X = input()
Y = input()
19
20
21
    result = longest_common_subsequence_length(X, Y)
```

Input	Expected	Got	
abcbdab bdcaba	Length of LCS is : 4	Length of LCS is : 4	
treehouse elephant	Length of LCS is : 3	Length of LCS is : 3	
AGGTAB GXTXAYB	Length of LCS is : 4	Length of LCS is : 4	

Passed all tests!

Correct

Marks for this submission: 20.00/20.00.

Question **4**Correct
Mark 20.00 out of 20.00

P Flag question

Create a python program to compute the edit distance between two given strings using iterative method.

For example:

Input	Result
kitten sitting	3

Answer: (penalty regime: 0 %)

Input	Expected	Got
kitten sitting	3	3
medium median	2	2

Passed all tests!

Correct

Marks for this submission: 20.00/20.00.

Question **5**Correct
Mark 20.00 out of 20.00

 $\operatorname{\mathbb{F}}$ Flag question

LONGEST COMMON SUBSTRING PROBLEM

The longest common substring problem is the problem of finding the longest string (or strings) that is a substring (or are substrings) of two strings.

Answer: (penalty regime: 0 %)

```
2
    def LCS(X, Y, m, n):
3
4
       maxLength = 0
5
       endingIndex = m
       6
 8
10
11
12
13
      return X[endingIndex - maxLength: endingIndex]
__name__ == '__main__':
X = input()
Y = input()
14
15
16
17
       m = len(X)
18
19
       n = len(Y)
       print('The longest common substring is', LCS(X, Y, m, n))
21
22
```

Input	Expected	Got	
ABC BABA	The longest common substring is AB	The longest common substring is AB	
abcdxyz xyzabcd	The longest common substring is abcd	The longest common substring is abcd	

Passed all tests!

Correc

Marks for this submission: 20.00/20.00.