Started on Tuesday, 6 May 2025, 9:23 AM

State Finished

Completed on Tuesday, 6 May 2025, 8:44 PM

Time taken 11 hours 21 mins

Overdue 9 hours 21 mins

Grade 80.00 out of 100.00

Question ${\bf 1}$

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 %)

	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! 🗸

Correct

Question **2**Correct
Mark 20.00 out of 20.00

LONGEST COMMON SUBSTRING PROBLEM

Given two strings 'X' and 'Y', find the length of the longest common substring.

Answer: (penalty regime: 0 %)

```
1 ▼ def LongComSubS(st1, st2):
2
      ans = 0;
3 •
      for a in range(len(st1)):
4 •
             for b in range(len(st2)):
5
                k = 0;
                while ((a + k) < len(st1) and (b + k) < len(st2)
6
            and st1[a + k] == st2[b + k]:
 k = k + 1;
7,
8
9
                ans = max(ans, k);
10
      return ans;
11
12 v if __name__ == '__main__':
13
14
        A = input()
15
        B = input()
        i = len(A)
16
17
        j = len(B)
        print('Length of Longest Common Substring is', LongComSubS(A, B))
18
```

		Input	Expected	Got	
•		ABC BABA	Length of Longest Common Substring is 2	Length of Longest Common Substring is 2	~
•	•	abcdxyz xyzabcd	Length of Longest Common Substring is 4	Length of Longest Common Substring is 4	~

Passed all tests! ✓

Correct

```
Question 3
Correct
Mark 20.00 out of 20.00
```

Create a python program to find the longest palindromic substring using Brute force method in a given string.

For example:

Input		Result	
mojolog	giccigolmojo	logiccigol	

Answer: (penalty regime: 0 %)

Reset answer

```
1 v def printSubStr(str, low, high):
 2
         for i in range(low, high + 1):
    print(str[i], end = "")
 3 ▼
 4
 6 v def longestPalindrome(str):
 7
         n=len(str)
 8
         max_len=0
 9
         start=0
10 •
         for i in range(n):
             for j in range(1,n):
11 🔻
                  s=str[i:j+1]
12
13 🔻
                 if s==s[::-1]:
14
                      cur=j-i+1
                      if cur>max_len:
15
                          max_len=cur
16
17
                          start=i
18
         printSubStr(str, start, start + max_len - 1)
19
20 v if __name__ == '__main__':
21
22
         str = input()
```

	Input	Expected	Got	
~	mojologiccigolmojo	logiccigol	logiccigol	~
~	sampleelpams	pleelp	pleelp	~

Passed all tests! 🗸

Correct

```
Question 4
Correct
Mark 20.00 out of 20.00
```

Write a python program to check whether Hamiltonian path exits in the given graph.

For example:

Test	Result	
Hamiltonian_path(adj, N)	YES	

Answer: (penalty regime: 0 %)

```
Reset answer
```

```
3
           return False
4 🔻
       if v in path:
           return False
       return True
6
7 v def hamUtil(adj,path,pos,N):
8 🔻
       if pos==N:
9
           return True
       for v in range(N):
10 •
           if is_valid(v,pos,path,adj,N):
11 🔻
12
               path[pos]=v
13 🔻
               if hamUtil(adj,path,pos+1,N):
14
                   return True
               path[pos]=-1
15
       return True
16
17 v def Hamiltonian_path(adj,N):
18
       path=[-1]*N
19
       path[0]=0
20
       if hamUtil(adj,path,1,N) == False:
21 •
22
           print ("Solution does not exist\n")
```

	Test	Expected	Got	
~	Hamiltonian_path(adj, N)	YES	YES	~

Passed all tests! 🗸

Correct

```
Question 5
Incorrect
Mark 0.00 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
```

Syntax Error(s)

Sorry: IndentationError: expected an indented block (__tester__.python3, line 3)

Incorrect