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101. Longest Palindromic Subsequence
AIM: To find the length of ongest palindromic subsequence
PROGRAM:
def longest_palindromic_subsequence(s):
  n = len(s)
  dp = [[0] * n for _ in range(n)]
  for i in range(n):
    dp[i][i] = 1
  for length in range(2, n + 1): # length of subsequence
    for i in range(n - length + 1):
      j = i + length - 1
      if s[i] == s[j]:
        dp[i][j] = dp[i+1][j-1] + 2
      else:
         dp[i][j] = max(dp[i+1][j], dp[i][j-1])
  return dp[0][n-1]
s = "bbbab"
print("Length of the longest palindromic subsequence:", longest_palindromic_subsequence(s))
         Length of the longest palindromic subsequence:
              4
OUTPUT:
TIME COMPLEXITY: O( n 2)
```