

Question 4:

Taken string is s

Length is n

2D array which represents the length of the longest repeating subsequence of the of the substring where last character in both the subsequences not the same

```
def longest_repeating_subsequence(s):
    n = len(s)
    dp = [[0 for j in range(n+1)] for i in range(n+1)]

    for i in range(1, n+1):
        for j in range(1, n+1):
            if i == 0 or j == 0:
                dp[i][j] = 0
            elif s[i-1] == s[j-1] and i != j:
                dp[i][j] = 1 + dp[i-1][j-1]
            else:
                dp[i][j] = max(dp[i-1][j], dp[i][j-1])

    return dp[n][n]
```