**Problem 1:LCS problem.**

x,y=input().split()

n,m=len(x),len(y)

l=[[0 for \_ in range(m+1)] for \_ in range(n+1)]

for i in range(1,n+1):

for j in range(1,m+1):

if(x[i-1]==y[j-1]):

l[i][j]=l[i-1][j-1]+1

else:

l[i][j]=max(l[i-1][j],l[i][j-1])

print(l[n][m])

**Input:**

AGGTAB GXTXAYB

**Output:**

4