class Solution:

def isScramble(self,s1, s2):

m ={}

def func(s1, s2):

if (s1, s2) in m:

return m[(s1, s2)]

if not sorted(s1) == sorted(s2):

return False

if len(s1) == 1:

return True

for i in range(1, len(s1)):

if func(s1[:i], s2[-i:]) and func(s1[i:], s2[:-i]) or func(s1[:i], s2[:i]) and func(s1[i:], s2[i:]):

m[(s1, s2)] = True

return True

m[(s1, s2)] = False

return False

return func(s1, s2)