CodeQuotient

Department of Computer Science & Engineering

LAB MANUAL

22CS025 - Algorithm Design & Implementation-5Sem-2022

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Aim: String is subsequence or not

Given two strings, find whether second string is subsequence of first string. A subsequence of a string is defined as a string that can be obtained by deleting any number of characters from the original string.

Complete the function **strSubsequence(str1, str2)** that accepts two strings as parameters and print **YES** if str2 is a subsequence of str1 and **NO** otherwise.

Input Format

The first line of input contains an integer T denoting the no of test cases . Then T test cases follow.

Each test case contains a single line of input which contains two strings str1, str2 seperated by a space.

Output Format

For each test case, print YES or NO in new lines.

Constraints

1 <= T <= 10

Given strings consist of uppercase and lowercase English letters.

Sample Input

3

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Hello Hi

Sample Output

YES

NO

NO

Solution:

```
class Result{
  // Return true if the str2 is a subsequence of str1, else return false
  static boolean strSubsequence(String str1, String str2) {
   // Write your code here
     int m=str1.length();
     int n=str2.length();
     int i=0,j=0;
     while(i<m &&j<n){
        if(str1.charAt(i)==str2.charAt(j)){
           j++;
        }
        i++;
     }
   return j==n;
  }
}
```

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