Two Strings ☆

Problem Submissions Leaderboard Editorial Topics

Given two strings, determine if they share a common substring. A substring may be as small as one character.

For example, the words "a", "and", "art" share the common substring a. The words "be" and "cat" do not share a substring.

Function Description

Complete the function *twoStrings* in the editor below. It should return a string, either `YES` or `NO` based on whether the strings share a common substring.

twoStrings has the following parameter(s):

- *s1, s2*: two strings to analyze .

Input Format

The first line contains a single integer p, the number of test cases.

The following p pairs of lines are as follows:

- The first line contains string $s1$.
- The second line contains string $s2$.

Constraints

- $s1$ and $s2$ consist of characters in the range ascii[a-z].
- $1 \leq p \leq 10$
- $1 \leq |s1|, |s2| \leq 10^5$

Output Format

For each pair of strings, return `YES` or `NO`.

Sample Input

```
2
hello
world
hi
world
```

Sample Output

```
YES
NO
```

Explanation

We have $p = 2$ pairs to check:

1. $s1 =$ **"hello"**, $s2 =$ **"world"**. The substrings **"o"** and **"l"** are common to both strings.

2. $a =$ "hi", $b =$ "world". $s1$ and $s2$ share no common substrings.

Python 3

```
#!/bin/python3

import math
import os
import random
import re
import sys
from collections import Counter

# Complete the twoStrings function below.
def twoStrings(s1, s2):
    temp = Counter(s1)
    temp2 = Counter(s2)
    dif = (temp - temp2)
    return ( "NO" if (dif == temp) else "YES")

if __name__ == '__main__':
    fptr = open(os.environ['OUTPUT_PATH'], 'w')

    q = int(input())

    for q_itr in range(q):
        s1 = input()

        s2 = input()

        result = twoStrings(s1, s2)

        fptr.write(result + '\n')

```

Line: 15 Col: 26

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