



Two Strings ☆

You have successfully solved Two Strings

Share

Tweet



[Try the next challenge](#)

Problem

Submissions

Leaderboard

Editorial

Topics

RATE THIS CHALLENGE



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. $a = \text{"hi"}, b = \text{"world"}$. $s1$ and $s2$ share no common substrings.

[Change Theme](#)

C++



```
1  #include <bits/stdc++.h>
2
3  using namespace std;
4
5  // Complete the twoStrings function below.
6  string twoStrings(string s1, string s2) {
7      map<char,int> table;
8      int m = s1.size();
9      int n = s2.size();
10     // alternate solution: https://medium.com/@carlosbf/two-strings-solution-d6cff7f5c11c
11     for(int i=0; i<m;i++){
12         table[s1[i]]+=1;
13     }
14     for(int j=0; j<n;j++){
15         if(table[s2[j]]>0){
16             return "YES";
17         }
18     }
19     return "NO";
20 }
21
22 int main()
```

Line: 10 Col: 28

☒ Upload Code as File ☐ Test against custom input[Run Code](#)[Submit Code](#)

Congratulations

You solved this challenge. Would you like to challenge your friends?

[Next Challenge](#)[✔ Test case 0](#)[✔ Test case 1](#)[✔ Test case 2](#)[✔ Test case 3](#)[✔ Test case 4](#)[✔ Test case 5](#)[✔ Test case 6](#)

Compiler Message

Success

Input (stdin)

```
1 2
2 hello
3 world
4 hi
5 world
```

[Download](#)

Expected Output

```
1 YES
2 NO
```

[Download](#)

[Contest Calendar](#) | [Blog](#) | [Scoring](#) | [Environment](#) | [FAQ](#) | [About Us](#) | [Support](#) | [Careers](#) | [Terms Of Service](#) | [Privacy Policy](#) | [Request a Feature](#)

