

Two Strings

Problem

Submissions

Leaderboard

Discussions

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

Example

$s1 = \text{'and'}$

$s2 = \text{'art'}$

These share the common substring a .

$s1 = \text{'be'}$

$s2 = \text{'cat'}$

These do not share a substring.

Function Description

Complete the function *twoStrings* in the editor below.

twoStrings has the following parameter(s):

- *string s1*: a string
- *string s2*: another string

Returns

- *string*: either YES or NO

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. $s_1 = \text{"hello"}, s_2 = \text{"world"}$. The substrings **"o"** and **"l"** are common to both strings.
2. $a = \text{"hi"}, b = \text{"world"}$. s_1 and s_2 share no common substrings.

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Contest ends in 3 hours

Submissions: 187

Max Score: 100

Difficulty: Easy

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C++



```
1 #include <bits/stdc++.h>
2
3 using namespace std;
4
5 string ltrim(const string &);
6 string rtrim(const string &);
7
8 /*
9  * Complete the 'twoStrings' function below.
10  *
11  * The function is expected to return a STRING.
12  * The function accepts following parameters:
13  * 1. STRING s1
14  * 2. STRING s2
15  */
16
17 string twoStrings(string s1, string s2) {
18
19 }
20
21 int main()
22 {
23     ofstream fout(getenv("OUTPUT_PATH"));
24
25     string q_temp;
26     getline(cin, q_temp);
27
```

```

28     int q = stoi(ltrim(rtrim(q_temp)));
29
30     for (int q_itr = 0; q_itr < q; q_itr++) {
31         string s1;
32         getline(cin, s1);
33
34         string s2;
35         getline(cin, s2);
36
37         string result = twoStrings(s1, s2);
38
39         fout << result << "\n";
40     }
41
42     fout.close();
43
44     return 0;
45 }
46
47 string ltrim(const string &str) {
48     string s(str);
49
50     s.erase(
51         s.begin(),
52         find_if(s.begin(), s.end(), not1(ptr_fun<int, int>(isspace)))
53     );
54
55     return s;
56 }
57
58 string rtrim(const string &str) {
59     string s(str);
60
61     s.erase(
62         find_if(s.rbegin(), s.rend(), not1(ptr_fun<int, int>(isspace))).base(),
63         s.end()
64     );
65
66     return s;
67 }
68

```

Line: 1 Col: 1

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