Started on	Tuesday, 19 March 2024, 11:09 PM
State	Finished
Completed on	Tuesday, 19 March 2024, 11:19 PM
Time taken	9 mins 12 secs
Grade	**10.00** out of 10.00 (**100**%)

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].
- $1 \le p \le 10$
- $1 \le |s1|, |s2| \le 10^5$

Output Format

For each pair of strings, return YES or NO.

For example:

Input	Result
2 hello world hi world	YES NO

Answer: (penalty regime: 0 %)

Reset answer

```
25              return "YES";
26            }
27          }
28        }
29      return "NO";
30   }
31
32   int main()
33   {
34       string q_temp;
35       getline(cin, q_temp);
36
37       int q = stoi(ltrim(rtrim(q_temp)));
38
39       for (int q_itr = 0; q_itr < q; q_itr++)
40       {
41           string s1;
42           getline(cin, s1);
43
44           string s2;
```

```cpp
45            getline(cin, s2);
46
47            string result = twoStrings(s1, s2);
48
49            cout << result << "\n";
50        }
51
52        return 0;
53  }
54
55  string ltrim(const string &str)
56  {
57        string s(str);
58
59        s.erase(
60            s.begin(),
61            find_if(s.begin(), s.end(), not1(ptr_fun<int, int>(isspace))));
62
63        return s;
64  }
65
66  string rtrim(const string &str)
67  {
68        string s(str);
69
70        s.erase(
71            find_if(s.rbegin(), s.rend(), not1(ptr_fun<int, int>(isspace))).base(),
72            s.end());
73
74        return s;
75  }
76
```

	Input	Expected	Got	
✔	2 hello world hi world	YES NO	YES NO	✔

Passed all tests! ✔

▸ **Show/hide question author's solution (Cpp)**

Correct

Marks for this submission: 10.00/10.00.