Two Strings ★

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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. $s1 =$ **"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.

Change Theme   JavaScript (Node.js) ⌄

```
22
23    function readLine() {
24        return inputString[currentLine++];
25    }
26
27    // Complete the twoStrings function below.
28    function twoStrings(s1, s2) {
29        const string1Map = {};
30        for (let i = 0; i < s1.length; i++){
31            const s1Letter = s1[i];
32            string1Map[s1Letter] = true;
33        }
34        for (let i = 0; i < s2.length; i++){
35            const s2Letter = s2[i];
36            if (string1Map[s2Letter]){
37                return 'YES';
38            }
39        }
40        return 'NO';
41    }
42
43    function main() {
44        const ws = fs.createWriteStream(process.env.OUTPUT_PATH);
45
```

Line: 40 Col: 17

⤒ Upload Code as File   ☐ Test against custom input

Run Code   **Submit Code**

You have earned 25.00 points!

These points will also count towards your progress in the Problem Solving Badge.

45%   145/200

Problem Solving
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⊘ **Test case 0**

Compiler Message

⊘ **Test case 1** 🔒

Success

⊘ **Test case 2** 🔒

⊘ **Test case 3** 🔒

⊘ **Test case 4** 🔒

⊘ **Test case 5** 🔒

⊘ **Test case 6**

Input (stdin)   Download

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

Expected Output   Download

```
1   YES
```