

# Two Strings

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Problem

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You are given two strings, **A** and **B**. Find if there is a substring that appears in both **A** and **B**.

## Input Format

Several test cases will be given to you in a single file. The first line of the input will contain a single integer **T**, the number of test cases.

Then there will be **T** descriptions of the test cases. Each description contains two lines. The first line contains the string **A** and the second line contains the string **B**.

## Output Format

For each test case, display **YES** (in a newline), if there is a common substring. Otherwise, display **NO**.

## Constraints

All the strings contain only lowercase Latin letters.

$$1 \leq T \leq 10$$

$$1 \leq |A|, |B| \leq 10^5$$

## Sample Input

```
2
hello
world
hi
world
```

## Sample Output

```
YES
NO
```

## Explanation

For the 1<sup>st</sup> test case, the letter o is common between both strings, hence the answer **YES**. (Furthermore, the letter l is also common, but you only need to find one common substring.)


For the 2<sup>nd</sup> test case, *hi* and *world* do not have a common substring, hence the answer **NO**.

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Submissions: 25765

Max Score: 25

Difficulty: Moderate

Current Buffer (saved locally, editable)  

Python 2



```
1 # Enter your code here. Read input from STDIN. Print output to STDOUT
2 import fileinput
3
4 def is_substring(str1, str2):
5     temp = {}
6     for char in set(str1):
7         temp[char] = True
8
9     for char in set(str2):
10        if temp.get(char):
11            print "YES"
12            return
13        print "NO"
14        return
15
16 def main():
17     test = int(raw_input().strip())
18     for _ in xrange(test):
19         s1 = set(raw_input().strip().lower())
20         s2 = set(raw_input().strip().lower())
21         is_substring(s1, s2)
22
23 main()
```

Line: 22 Col: 5

 Upload Code as File☐ Test against custom input

Run Code

Submit Code

Testcase 0 **Congratulations, you passed this test case in 0.0100/10 seconds!**

Input (stdin)

```
2
hello
world
hi
world
```

Your Output (stdout)

```
YES
NO
```

Expected Output

```
YES
NO
```