

Alphabet Soup

DiPS CodeJam 22

Prompt

Every string has an "alphabet", composed of the characters that make it up. For example, the alphabet of *aabbccabcabc* is *a, b, c*. There are two operations you can do with alphabets: getting the alphabet of a string, and seeing if another string has a given alphabet. Given two strings, you must write a program that finds the alphabet of the first string, and returns *true* or *false* based on whether that alphabet makes up the second string.

Input Format

The first and only line of input contains 2 space-separated strings which you have to evaluate.

Output Format

The first and only line of your output must contain **true** or **false**, depending on the test case.

Constraints

$10 \leq \text{length of strings} \leq 100$

Sample Input/Output

| Input | Output |
|---|--------|
| wrfhxpmgby nxeywikrmmnfrybggnohfrbhvwmdalbyrx | false |

Solution

To find whether that alphabet of the first string makes up the second string, we must find whether the set of characters in the second string is a subset of the set of characters in the first string.

Sample Program

```
strings = input().split(' ')
s1 = strings[0]
s2 = strings[1]

# issubset() method, to check if test whether every element in s2 is in s1.
string2IsASubset = set([i for i in s2]).issubset(set([i for i in s1]))

print("true" if string2IsASubset else "false")
```