# Problem 1153: String Transforms Into Another String

## Problem Information

**Difficulty:** Hard
**Acceptance Rate:** 34.70%
**Paid Only:** Yes
**Tags:** Hash Table, String, Graph

## Problem Description

Given two strings `str1` and `str2` of the same length, determine whether you can transform `str1` into `str2` by doing **zero or more** _conversions_.

In one conversion you can convert **all** occurrences of one character in `str1` to **any** other lowercase English character.

Return `true` if and only if you can transform `str1` into `str2`.

**Example 1:**

**Input:** str1 = "aabcc", str2 = "ccdee" **Output:** true **Explanation:** Convert 'c' to 'e' then 'b' to 'd' then 'a' to 'c'. Note that the order of conversions matter.

**Example 2:**

**Input:** str1 = "leetcode", str2 = "codeleet" **Output:** false **Explanation:** There is no way to transform str1 to str2.

**Constraints:**

* `1 <= str1.length == str2.length <= 104` * `str1` and `str2` contain only lowercase English letters.

## Code Snippets

**C++:**

```cpp
class Solution {
public:
bool canConvert(string str1, string str2) {


}
};
```

**Java:**

```java
class Solution {
public boolean canConvert(String str1, String str2) {


}
}
```

**Python3:**

```python
class Solution:
def canConvert(self, str1: str, str2: str) -> bool:
```