5537. Split Two Strings to Make Palindrome

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User Accepted:	0
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Total Accepted:	0
Total Submissions:	0
Difficulty:	Medium

You are given two strings `a` and `b` of the same length. Choose an index and split both strings **at the same index**, splitting `a` into two strings: a_{prefix} and a_{suffix} where `a = a_prefix + a_suffix`, and splitting `b` into two strings: b_{prefix} and b_{suffix} where `b = b_prefix + b_suffix`. Check if $a_{prefix} + b_{suffix}$ or $b_{prefix} + a_{suffix}$ forms a palindrome.

When you split a string `s` into s_{prefix} and s_{suffix}, either s_{suffix} or s_{prefix} is allowed to be empty. For example, if `s = "abc"`, then `"" + "abc"`, `"a" + "bc"`, `"ab" + "c"`, and `"abc" + ""` are valid splits.

Return `true` *if it is possible to form a palindrome string, otherwise return* `false`.

Notice that `x + y` denotes the concatenation of strings `x` and `y`.

Example 1:

```
Input: a = "x", b = "y"
Output: true
Explaination: If either a or b are palindromes the answer is true since you can split in the following way:
a_prefix = "", a_suffix = "x"
b_prefix = "", b_suffix = "y"
Then, a_prefix + b_suffix = "" + "y" = "y", which is a palindrome.
```

Example 2:

```
Input: a = "abdef", b = "fecab"
Output: false
```

Example 3:

```
Input: a = "ulacfd", b = "jizalu"
Output: true
Explaination: Split them at index 3:
a_prefix = "ula", a_suffix = "cfd"
b_prefix = "jiz", b_suffix = "alu"
Then, a_prefix + b_suffix = "ula" + "alu" = "ulaalu", which is a palindrome.
```

Constraints:

- `1 <= a.length, b.length <= 10^5`
- `a.length == b.length`
- `a` and `b` consist of lowercase English letters

JavaScript

```
/**
 * @param {string} a
 * @param {string} b
 * @return {boolean}
 */
var checkPalindromeFormation = function(a, b) {

};
```