Problem 214: Shortest Palindrome

Problem Information

Difficulty: Hard
Acceptance Rate: 41.39%
Paid Only: No
Tags: String, Rolling Hash, String Matching, Hash Function

Problem Description

You are given a string `s`. You can convert `s` to a palindrome by adding characters in front of it.

Return _the shortest palindrome you can find by performing this transformation_.

Example 1:

Input: s = "aacecaaa" **Output:** "aaacecaaa"

Example 2:

Input: s = "abcd" **Output:** "dcbabcd"

Constraints:

* `0 <= s.length <= 5 * 104` * `s` consists of lowercase English letters only.

Code Snippets

C++:

```
class Solution {
public:
string shortestPalindrome(string s) {
```

```
    }
};
```

Java:

```
class Solution {
public String shortestPalindrome(String s) {


}
}
```

Python3:

```
class Solution:
def shortestPalindrome(self, s: str) -> str:
```