Problem 564: Find the Closest Palindrome

Problem Information

Difficulty: Hard
Acceptance Rate: 31.77%
Paid Only: No
Tags: Math, String

Problem Description

Given a string `n` representing an integer, return _the closest integer (not including itself), which is a palindrome_. If there is a tie, return _**the smaller one**_.

The closest is defined as the absolute difference minimized between two integers.

Example 1:

Input: n = "123" **Output:** "121"

Example 2:

Input: n = "1" **Output:** "0" **Explanation:** 0 and 2 are the closest palindromes but we return the smallest which is 0.

Constraints:

* `1 <= n.length <= 18` * `n` consists of only digits. * `n` does not have leading zeros. * `n` is representing an integer in the range `[1, 1018 - 1]`.

Code Snippets

C++:

```
class Solution {
public:
```

```
    string nearestPalindromic(string n) {


    }
};
```

Java:

```
class Solution {
public String nearestPalindromic(String n) {


}
}
```

Python3:

```
class Solution:
def nearestPalindromic(self, n: str) -> str:
```