

564. Find the Closest Palindrome

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:

- $1 \leq n.length \leq 18$
- n consists of only digits.
- n does not have leading zeros.
- n is representing an integer in the range $[1, 10^{18} - 1]$.