Problem 400: Nth Digit

Problem Information

Difficulty: Medium
Acceptance Rate: 36.56%
Paid Only: No
Tags: Math, Binary Search

Problem Description

Given an integer `n`, return the `nth` digit of the infinite integer sequence `[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, ...]`.

Example 1:

Input: n = 3 **Output:** 3

Example 2:

Input: n = 11 **Output:** 0 **Explanation:** The 11th digit of the sequence 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, ... is a 0, which is part of the number 10.

Constraints:

* `1 <= n <= 231 - 1`

Code Snippets

C++:

```
class Solution {
public:
    int findNthDigit(int n) {


    }
```

```
};
```

Java:

```java
class Solution {
public int findNthDigit(int n) {


}
}
```

Python3:

```python
class Solution:
def findNthDigit(self, n: int) -> int:
```