Problem 1256: Encode Number

Problem Information

Difficulty: Medium
Acceptance Rate: 70.18%
Paid Only: Yes
Tags: Math, String, Bit Manipulation

Problem Description

Given a non-negative integer `num`, Return its _encoding_ string.

The encoding is done by converting the integer to a string using a secret function that you should deduce from the following table:

Example 1:

Input: num = 23 **Output:** "1000"

Example 2:

Input: num = 107 **Output:** "101100"

Constraints:

* `0 <= num <= 10^9`

Code Snippets

C++:

```
class Solution {
public:
```

```
    string encode(int num) {


    }
};
```

Java:

```
class Solution {
public String encode(int num) {


}
}
```

Python3:

```
class Solution:
def encode(self, num: int) -> str:
```