

Problem 3280: Convert Date to Binary

Problem Information

Difficulty: Easy

Acceptance Rate: 88.52%

Paid Only: No

Tags: Math, String

Problem Description

You are given a string `date` representing a Gregorian calendar date in the `yyyy-mm-dd` format.

`date` can be written in its binary representation obtained by converting year, month, and day to their binary representations without any leading zeroes and writing them down in `year-month-day` format.

Return the **binary** representation of `date`.

Example 1:

Input: `date = "2080-02-29"`

Output: `"100000100000-10-11101"`

Explanation:

100000100000, 10, and 11101 are the binary representations of 2080, 02, and 29 respectively.

Example 2:

Input: `date = "1900-01-01"`

Output: `"11101101100-1-1"`

****Explanation:****

11101101100, 1, and 1 are the binary representations of 1900, 1, and 1 respectively.

****Constraints:****

* `date.length == 10` * `date[4] == date[7] == '-'`, and all other `date[i]`'s are digits. * The input is generated such that `date` represents a valid Gregorian calendar date between Jan 1st, 1900 and Dec 31st, 2100 (both inclusive).

Code Snippets

C++:

```
class Solution {
public:
    string convertDateToBinary(string date) {

    }
};
```

Java:

```
class Solution {
    public String convertDateToBinary(String date) {

    }
}
```

Python3:

```
class Solution:
    def convertDateToBinary(self, date: str) -> str:
```