

# 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:
```