842. Split Array into Fibonacci Sequence

Description

You are given a string of digits `num`, such as `"123456579"`. We can split it into a Fibonacci-like sequence `[123, 456, 579]`.

Formally, a **Fibonacci-like** sequence is a list `f` of non-negative integers such that:

- `0 <= f[i] < 2^31`, (that is, each integer fits in a **32-bit** signed integer type),
- `f.length >= 3`, and
- `f[i] + f[i + 1] == f[i + 2]` for all `0 <= i < f.length - 2`.

Note that when splitting the string into pieces, each piece must not have extra leading zeroes, except if the piece is the number `0` itself.

Return any Fibonacci-like sequence split from `num`, or return `[]` if it cannot be done.

Example 1:

```
Input: num = "1101111"
Output: [11,0,11,11]
Explanation: The output [110, 1, 111] would also be accepted.
```

Example 2:

```
Input: num = "112358130"
Output: []
Explanation: The task is impossible.
```

Example 3:

```
Input: num = "0123"
Output: []
Explanation: Leading zeroes are not allowed, so "01", "2", "3" is not valid.
```

Constraints:

- `1 <= num.length <= 200`
- `num` contains only digits.