

Problem 1903: Largest Odd Number in String

Problem Information

Difficulty: Easy

Acceptance Rate: 66.45%

Paid Only: No

Tags: Math, String, Greedy

Problem Description

You are given a string `num`, representing a large integer. Return `the largest-valued odd integer (as a string) that is a non-empty substring of num`, or an empty string `""` if no odd integer exists.

A **substring** is a contiguous sequence of characters within a string.

Example 1:

Input: `num = "52"` **Output:** `"5"` **Explanation:** The only non-empty substrings are `"5"`, `"2"`, and `"52"`. `"5"` is the only odd number.

Example 2:

Input: `num = "4206"` **Output:** `""` **Explanation:** There are no odd numbers in `"4206"`.

Example 3:

Input: `num = "35427"` **Output:** `"35427"` **Explanation:** `"35427"` is already an odd number.

Constraints:

`1 <= num.length <= 105` `num` only consists of digits and does not contain any leading zeros.

Code Snippets

C++:

```
class Solution {  
public:  
    string largestOddNumber(string num) {  
  
    }  
};
```

Java:

```
class Solution {  
    public String largestOddNumber(String num) {  
  
    }  
}
```

Python3:

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