Problem 2259: Remove Digit From Number to Maximize Result

Problem Information

Difficulty: Easy
Acceptance Rate: 47.86%
Paid Only: No
Tags: String, Greedy, Enumeration

Problem Description

You are given a string `number` representing a **positive integer** and a character `digit`.

Return _the resulting string after removing**exactly one occurrence** of _`digit` _from_`number` _such that the value of the resulting string in**decimal** form is **maximized**_. The test cases are generated such that `digit` occurs at least once in `number`.

Example 1:

Input: number = "123", digit = "3" **Output:** "12" **Explanation:** There is only one '3' in "123". After removing '3', the result is "12".

Example 2:

Input: number = "1231", digit = "1" **Output:** "231" **Explanation:** We can remove the first '1' to get "231" or remove the second '1' to get "123". Since 231 > 123, we return "231".

Example 3:

Input: number = "551", digit = "5" **Output:** "51" **Explanation:** We can remove either the first or second '5' from "551". Both result in the string "51".

Constraints:

* `2 <= number.length <= 100` * `number` consists of digits from `'1'` to `'9'`. * `digit` is a digit from `'1'` to `'9'`. * `digit` occurs at least once in `number`.

Code Snippets

C++:

```
class Solution {
public:
string removeDigit(string number, char digit) {

}
};
```

Java:

```
class Solution {
public String removeDigit(String number, char digit) {

}
}
```

Python3:

```
class Solution:
def removeDigit(self, number: str, digit: str) -> str:
```