

Problem 1016: Binary String With Substrings Representing 1 To N

Problem Information

Difficulty: Medium

Acceptance Rate: 58.28%

Paid Only: No

Tags: Hash Table, String, Bit Manipulation, Sliding Window

Problem Description

Given a binary string `s` and a positive integer `n`, return `true` if the binary representation of all the integers in the range `[1, n]` are **substrings** of `s`, or `false` otherwise.

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

Example 1:

Input: `s = "0110", n = 3` **Output:** `true`

Example 2:

Input: `s = "0110", n = 4` **Output:** `false`

Constraints:

`1 <= s.length <= 1000` `s[i]` is either `'0'` or `'1'`. `1 <= n <= 109`

Code Snippets

C++:

```
class Solution {  
public:
```

```
bool queryString(string s, int n) {  
  
}  
};
```

Java:

```
class Solution {  
    public boolean queryString(String s, int n) {  
  
    }  
}
```

Python3:

```
class Solution:  
    def queryString(self, s: str, n: int) -> bool:
```