

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:

* $1 \leq s.length \leq 1000$ * $s[i]$ is either '0' or '1'. * $1 \leq n \leq 109$

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:
```