

Problem 44: Wildcard Matching

Problem Information

Difficulty: Hard

Acceptance Rate: 30.88%

Paid Only: No

Tags: String, Dynamic Programming, Greedy, Recursion

Problem Description

Given an input string (`s`) and a pattern (`p`), implement wildcard pattern matching with support for `'?'` and `'*'` where:

`'?'` Matches any single character. `'*'` Matches any sequence of characters (including the empty sequence).

The matching should cover the **entire** input string (not partial).

Example 1:

Input: `s = "aa", p = "a"` **Output:** `false` **Explanation:** `"a"` does not match the entire string `"aa"`.

Example 2:

Input: `s = "aa", p = ""` **Output:** `true` **Explanation:** `''` matches any sequence.

Example 3:

Input: `s = "cb", p = "?a"` **Output:** `false` **Explanation:** `'?'` matches `'c'`, but the second letter is `'a'`, which does not match `'b'`.

Constraints:

`0 <= s.length, p.length <= 2000` `s` contains only lowercase English letters. `p` contains only lowercase English letters, `'?'` or `'*'`.

Code Snippets

C++:

```
class Solution {  
public:  
    bool isMatch(string s, string p) {  
  
    }  
};
```

Java:

```
class Solution {  
    public boolean isMatch(String s, String p) {  
  
    }  
}
```

Python3:

```
class Solution:  
    def isMatch(self, s: str, p: str) -> bool:
```