Regular Expression Matching - LeetCode

leetcode.com/problems/regular-expression-matching

Given an input string (`s`) and a pattern (`p`), implement regular expression matching with support for `'.'` and `'*'` .

'.' Matches any single character.
'*' Matches zero or more of the preceding element.

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

Note:

- `s` could be empty and contains only lowercase letters `a-z` .
- `p` could be empty and contains only lowercase letters `a-z` , and characters like `.` or `*` .

Example 1:

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

Example 2:

Input:
s = "aa"
p = "a*"
Output: true
Explanation: '*' means zero or more of the preceding element, 'a'. Therefore, by repeating 'a' once, it becomes "aa".

Example 3:

Input:
s = "ab"
p = ".*"
Output: true
Explanation: ".*" means "zero or more (*) of any character (.)".

Example 4:

Input:
s = "aab"
p = "c*a*b"
Output: true
Explanation: c can be repeated 0 times, a can be repeated 1 time. Therefore, it matches "aab".

Example 5:

Input:
s = "mississippi"
p = "mis*is*p*."
Output: false