**[Regular Expression Matching](https://leetcode.com/problems/regular-expression-matching/)**

Given an input string s and a pattern p, implement regular expression matching with support for '.' and '\*' where:

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

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 = "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 (.)".

**Constraints:**

* 1 <= s.length <= 20
* 1 <= p.length <= 20
* s contains only lowercase English letters.
* p contains only lowercase English letters, '.', and '\*'.
* It is guaranteed for each appearance of the character '\*', there will be a previous valid character to match.