You may recall that in Linux we had learnt about regular expressions using grep & egrep

some metacharacters:-

. (period) matches any character except new line

\* (asterisk) matches any sequence of characters (including empty string)

You are provided an input string **str** and a pattern **pat** .

Implement the pattern matching for the entire string (not partial) and return true/false

Example 1:

input: stra = "hello", pat = "hell"

Output: false

"hell" does not match entire string "hello"

Example 2:

input: stra = "hello", pat = "h\*"

Output: true

"h" matches "h" and the "\*" matches the rest of the string

input: stra = "ot", pat = ".x"

Output: false

"." matches "o" but "x" does not match "t"

Constraints:

**stra** contains only lower-case English letters

**pat** contains only lower-case English letters or "." or "\*"