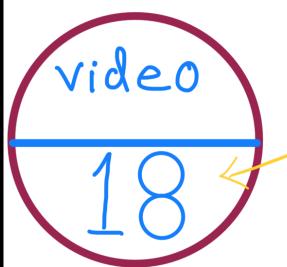
Recursion Concepts & Ans ... Motivation (ATRUD)





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10. Regular Expression Matching

Given an input string s and a pattern p implement regular expression matching with support for !!! where:

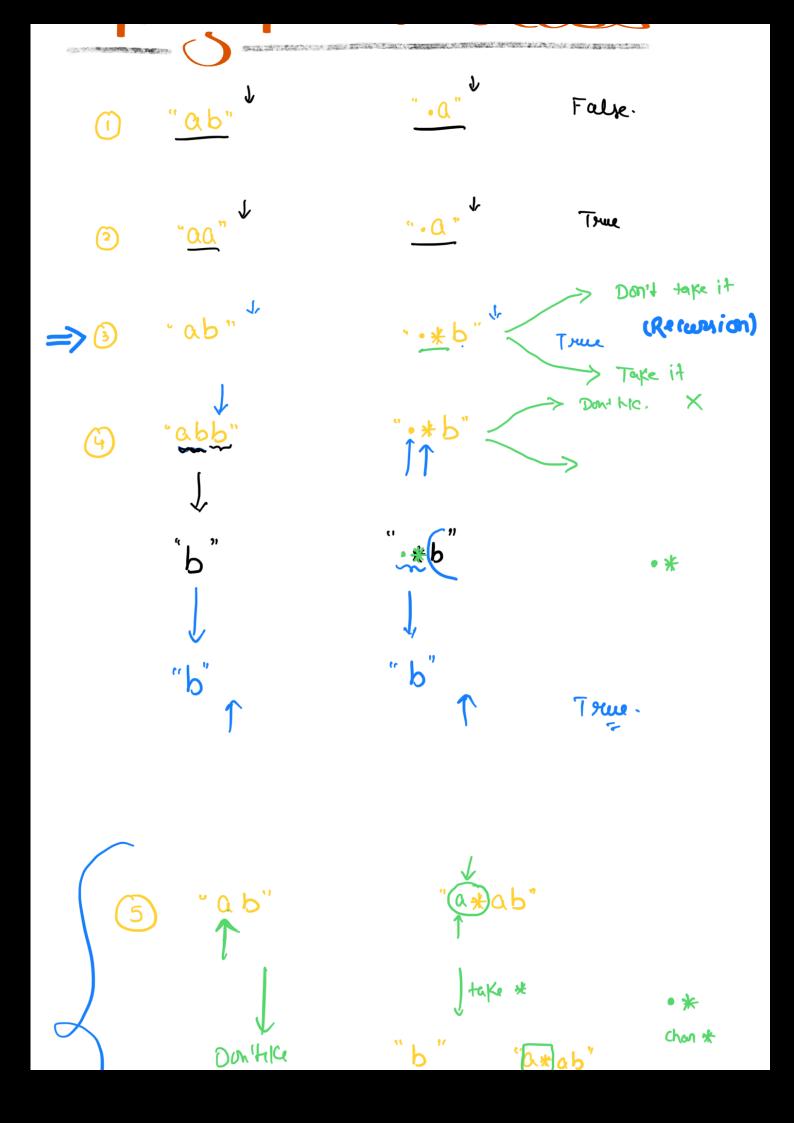
- '.' Matches any single character.
- * Matches zero or more of the preceding element.

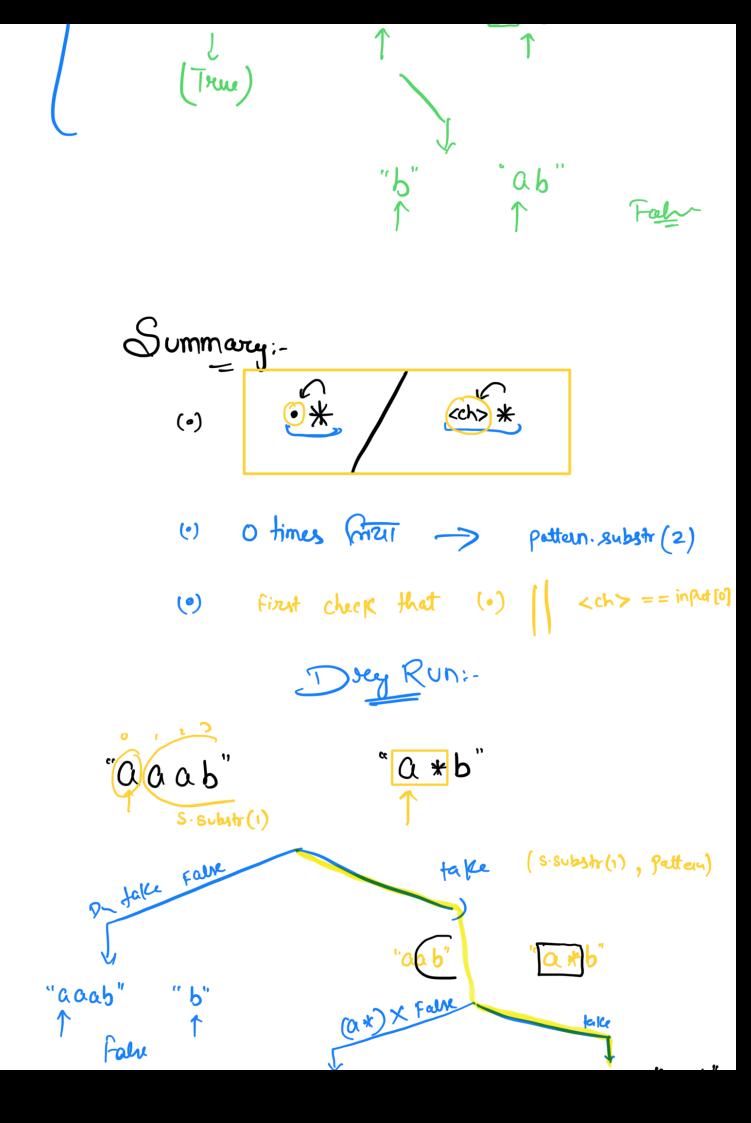
The matching should cover the **entire** input string (not partial).

ab abb abhb

Thought







Story Code:

Solve (S. S. S. S.)

11 P(0) = = '.

seturn (P(0)== s[0] &&

Solve (s. S.b(1), P. Sub(1));

4

S.C = max depth of re. -10(m)

T·c =

$$T(n) = 2T(n-1)$$

$$= 2$$



Optimisation:

$$\begin{array}{c}
i \\
A \\
A \\
C
\end{array}$$

$$\begin{array}{c}
i \\
C$$

$$\begin{array}{c}
C$$

$$\begin{array}{c}
i \\
C$$

$$C$$

$$C$$

$$C$$

$$C$$

$$C$$

$$C$$

$$C$$