Wild Card Matching

Problem Statement

Suggest Edit

Given a text and a wildcard pattern of size N and M respectively, implement a wildcard pattern matching algorithm that finds if the wildcard pattern is matched with the text. The matching should cover the entire text not partial text.

The wildcard pattern can include the characters '?' and '*'

'?' - matches any single character

'*' - Matches any sequence of characters(sequence
can be of length 0 or more)

Teturn folkell frue.

Appooach!

Stry matching Recursion

ab $t \in d$ f(n-1, m-1)ab def(d) f(4,6) f(5) = t = t = 0 f(5) = t = 0

- e Express((, j)
- · Try all Eways
- o True II false

ab * cd Recynsian. ab det c di f(1,j) if (1 < 0 ke j < 0) remor frue, if (1 to ktipno) return falu. 7 (j/o 16 i) for if(s[i]zzt[j] ||s1[i]z?) return f(i-1,j-1); H([[]=z + f(i-1) | f(isi-1)

veturn fals

ab * abdef ((1) (- 1) abdet abdet abt de abde ab abde ab* abd ababd ab# | ab // Base Case: If SI get exhausted ilo Abjlo remon Towe if(1(0) return false

if 52 get ex haustes it (j(0) to 1/20) 1 (S[i] = 2*) for like o, K(i)

If (sli) dz

Tenn false

return true

Time Complexity: Exponential
S.C.: D(N) Ms Aarillary Specu

Memorizann

Qp[n][m]

Qp[n-1][m-1]

T.C: D(N×M)

S.C. D(NXM) + D(NI+M) Anxillage Span. Tabulatin

Base Carse:

Pf (il 2086) 20) true

(1) [0] [8] 12 1, Spau Ophniced:

Aprologio

prev [0] 2 1. juni plake

prev [1] 1. juni plake

prev [1] 1. juni plake

Jos Curr

