

s = p q r s
p = ??? \Rightarrow True
p q r s

p q r s \Rightarrow True
*

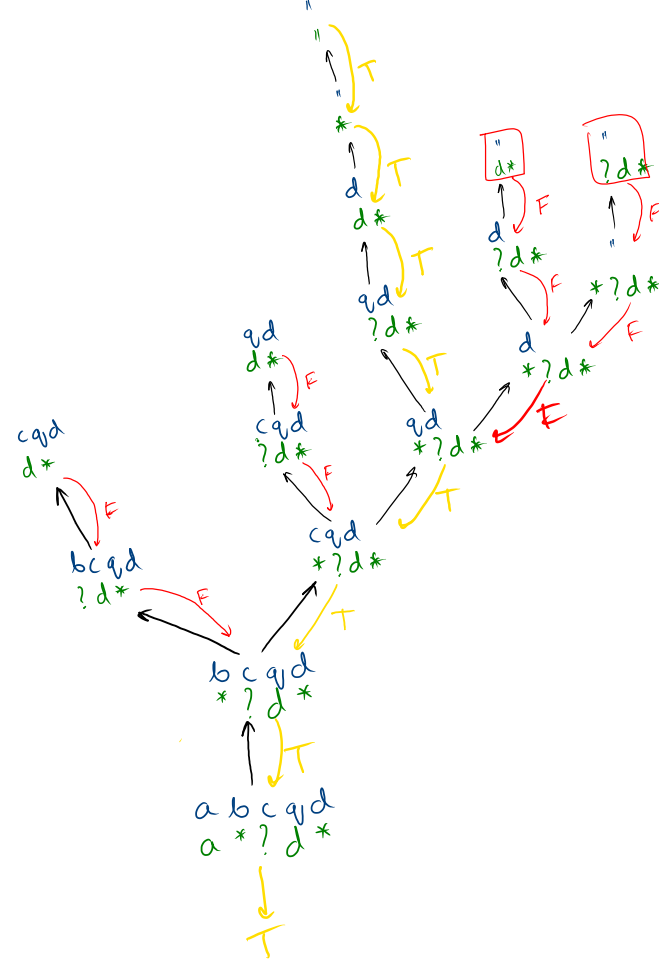
* \Rightarrow empty or single
? \Rightarrow Single

a
* ? * \Rightarrow True
+ a

a b c d \Rightarrow True
a b c d

a b b b c
a * c ? \Rightarrow False

a b c q d
a * ? ? d * \Rightarrow True
a b c q d



recur(s, p, i, j) {

if (i == s.len && j == p.len) return True

if (i != s.len && j == p.len) return false

if (i == s.len && j != p.len) {
if (p[j] != '*') return false // star is active or empty
return recur(s, p, i, j+1); character

} if (p[i] == '?') {

return recur(s, p, i+1, j+1);

else if (p[i] == '*') {

empty = recur(s, p, i, j+1);

consume = recur(s, p, i+1, j);

return empty || consume;

} if (s[i] != p[i]) return false

return recur(s, p, i+1, j+1);

}