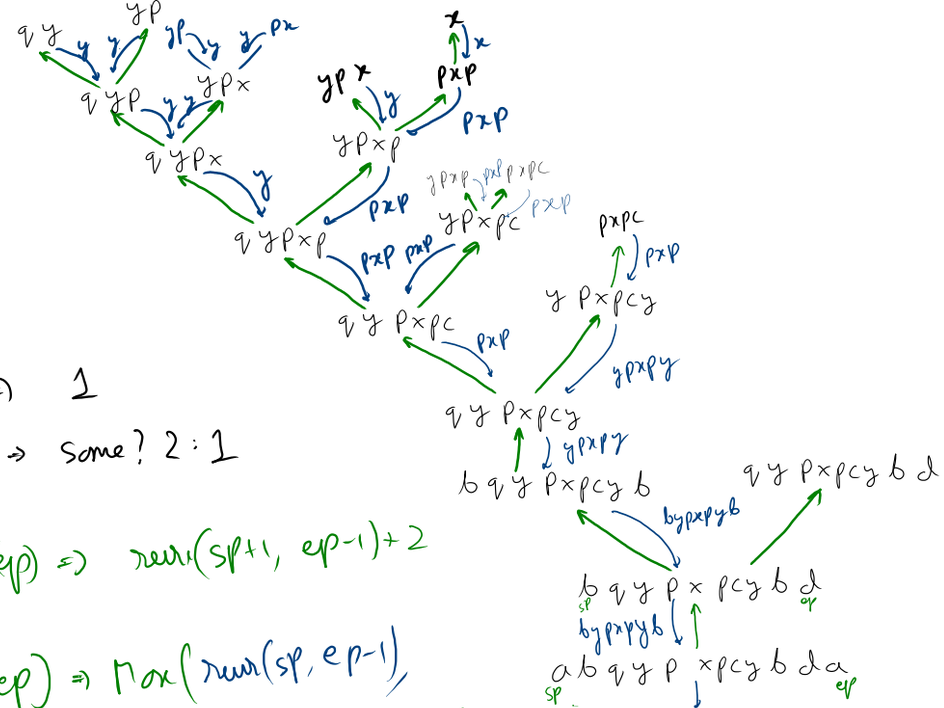

```
recur( S, sp, ep) {
if( sp == ep ) return 1
if( sp+1 == ep) {
  if( s[sp] == s[ep]) return 2
  return 1
}
if( s[sp] == s[ep]) return recur(S, sp+1, ep-1) +2
return max( recur(S,sp+1, ep) , recur(S, sp, ep-1) )
}
```

sp = ep ⇒ 1

sp+1 = ep ⇒ some ? 2 : 1

s(sp) == s(ep) ⇒ recur(sp+1, ep-1) + 2

s(sp) != s(ep) ⇒ max(recur(sp, ep-1), recur(sp+1, ep))

a b q y p x p c y b d a

Longest Palindromic Subseq.

a b y p x p y b a