Think about  $\mu(l;h')$   $\mu(h;l) = \mu(l;k')$   $\mu(k;l)$ by viny  $\mu(l;h')$   $\mu(l;h')$   $\mu(h;l) = \mu(k;l)$ Possible strategy:  $\mu(h;l)$  moves elements in l=5; real blocks.

Try to show that  $\mu(l;h')$   $\mu(l;h')$   $\mu(h;l)$ connot alo that.

O Clain =  $\pi(h')$  (or  $\pi(h')$ )  $\pi(h;l)$   $\pi(h')$  (d+1) =  $\pi(h')$  (a) +1

We agree this is true Mosing on.

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(i,i,k) = (k-1)m+(i-1)m+;
  T(i), h) = (h-1)-n+ (j-1)n+i
   Write (R-1) mm+ (;-1) n+= (k'-1) m'n+ (;-1) n'+i
   T (i,, h')= (k'-1) (mn') + (i'-1) ~ + ; 1
0(=, h) vs (=, j+1, h)
@ (t,n, k) vs (tt), 1, k)
3 (n, n, h) vs (1,1, h+1)
 Φπ'(π(i,jk))= (h'-1) μ'n' + (i'-1) μ' + j'

π'(π(i,jt,h))= π'(k-1) μ + jn + i)

= π'((h-1) μ + (j-1) η + μ + i)

- π'((h-1) μ' + (j-1) η' + i + η)
     hate no dan't poit r
                              TI ( (d+ p-1) min + (B+ T-1) n + T+ Y)
         One ase: (athillan' + (i'+ xilm' + pt;
                     p=1, x= Y=0 => n=n'
 228 or 520 => not possible

() T'(T(jn,h)) = Ti (|pul)nn+ |pul) + ti )/ Tf ~=n:

(h'-1) ~ n' + (i-1) ~ +; (p(hi) min + (i+) ~ + ~

Ti (T(it, |n)) = Ti (|pul) ~ n + i+1) & Pri ((n'-1) ~ n' + i+1)

() t'(T(n,n,k)) = Ti (|pul) ~ n + (n-1) ~ + n) = (n'-1) ~ n' + i+1)
                            = TT ( kmn)
     T(T(1,1, k+1))= T(km+1)
```