a, r D & means lencisty. local cost: (st[n+,n]) Tins = n+留+n-2+…+1=  $=\frac{1}{N_2+N}=\Theta(N_2)$ 2 n means lenclst) (Ist,o,n-) local cost: 2 (st, 1, n-1) (st, n+,n+)

Tun, =  $2 \times (n+1) + 1 = 2 \cdot n - 1 = \Theta \cdot n$ Version 2 is asymtotically faster. Because  $\theta \cdot n < \theta (n^2)$ .