Addition (A, B, C) 3 for (i=0; imp) i++) \(\frac{1}{2} \rightarrow n+1) \\ \frac{1}{2} \rightarrow \frac{1}{2} \rightarrow n+1 \\ \frac{1}{2} \\ \frac{1}{2} \rightarrow n+1 \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1 C[i,j] = A[i,j] + B[i,j]T(m) = (m+1) + n(n+1) + mxn $=2n^2+2n+1$ $s(n) = 3n^2 + 3 - 7$ $s(n) = 3n^2 + 3 - 7$

すのい (き=の) らくかんりもかる ----かんかもり c[1,5]=0; -> nxn for (K= 0) KKn; K++) { -> n×hxn C[i,j] = C[i,j] + A[i,j] + B[j,k] T(n) = (n+1) + n(n+1) + nxnx(n+1)+ n3 $= n^3 + m^3 + n^2 + n^2 + n + n$ = 2m3 + 2m2 + 2m+1 $o(n^3)$ $s(n) = 3n^2 + 4$ · 0 (n²) C-) n2 T(n) = T(n/2)+1 A 7 2 2nd time $T(\frac{m}{2^2})$ + 1+13rd time \Rightarrow $T\left(\frac{n}{23}\right)$ + 1+1+1 $= T\left(\frac{\eta}{2^{k}}\right) + k - 0$ · condition, T(n)=1 [n=1] considering Termina ting assume $\frac{y}{2x} = 1$ log n= log2 2k K = log_n from T (1/2) + K = T(1) + logn = O(logn)

Charles A. C. C.

for (i=0) 1 < n; 1+1) = n+1

Multip lication

$$= \frac{n}{2} + 2 \left(\frac{m}{2} - 1 \right)$$

$$= \frac{n}{2} + n - 2$$

$$T(n) = \frac{3n}{2} - 2$$

$$2(n-1) - 2n-2 > \frac{3n}{2} - 2$$