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Void inscrition sout (int and ), inth)

Insertion soot doesn't need to know, about what value it will soot door ing of hong reduced united sout. anythir

Gther Solling Alyos

- Bubble Sort
- 2) QUICK Sost
- 3) Mery Sout 4) Solution Sout 5) Mey Bat

Complex, y (sen)

Avg.	Chris	(4)0	100			design)
wast	0(11)	C/W.	0(12)	-	0(4)0	o (nach)
Best	(H)0	670	0(0)	o(mgn)	(pla) 0	(ngru) 0
Nom	Scholich	99908	Inscalien	Heap	Quen	May

Tracto & HEW Court Sort Stall Mega Book Budble Inplace Ingition 6 wich Hey

Inscition Onlin

+ Scotting Type

Brasy = oldegn Lines scarth - 6(4)

setum - 1

100 gk=1 100 +240 (0) gat (1) = (0) I T(n) = T(n/2) + 1 T(n/2) = T(n/2) + 1 - 0 T(n/2) = T(n/2) + 1 - 0 T(n/2) = T(n/2) + 1 - 0TG/27) +1(E sima) TG/4) + 1+1
TG/6) + 1+1+1 TG1) = TG/2) +1

TO) =0(191)+

(3-3) 1 shu

Recursive-

return is (assimily +1, r, K). int 65 (inter / intlinta, intel clse if (kg < ass [m]) revon 65 (as, 2, man-1, if CKST as Em7 E m= (Uts) /2 ( 45-28) situs

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O(nsegn) any and liest ourning time of general sol. souting too practical use auck sof in the fastest It is stable of her the

Sup.

- (10) QUICK EST GIVE HY WORT GIVE COMPLEXING IN
- 1) The way is scafed and either the post or the lost element is selected as
- when But when the piret is a moun clamery.

Mage soft -)  $8 \text{ cst tase} \to + (n) = 2T(n/2) + 0(n)$   $8 \text{ tase} \to + (n/2) + 0(n)$ 

TG1 = 2T(0/2) +0(n) - 0(ndogn) TG1 = T(M-1) + G(M) > O(M2) Best lase Couck Est

already their we can use a counter to that it any exdags To prevent bulble sort from scaning the whole array if it is sorted were made. If not then we break the loop and conduct Thus the assey is scoted

8 suap (ast (3), as (j+1) H (ODE) ] A COST (H) for (int j=0; j=n j++j) for (int )=0; ich; ++; veid buble ( int as , ind n) in ontio

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