

$$for (i = 1; i = n; i + 1)$$

$$for (j = 1; j = 0; j + 1)$$

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$$for (j$$

for (i= 1; i=n', i++) $for(j=1;j\leq i+s;j+t)$ 3 stmt, bool b search (int key []; int 16, int ub, int v) 2 f (lb <= ub) $\frac{2}{2}$ The $m = \frac{1}{2}$ tub $\frac{1}{2}$ if (ky m 7 = = v)

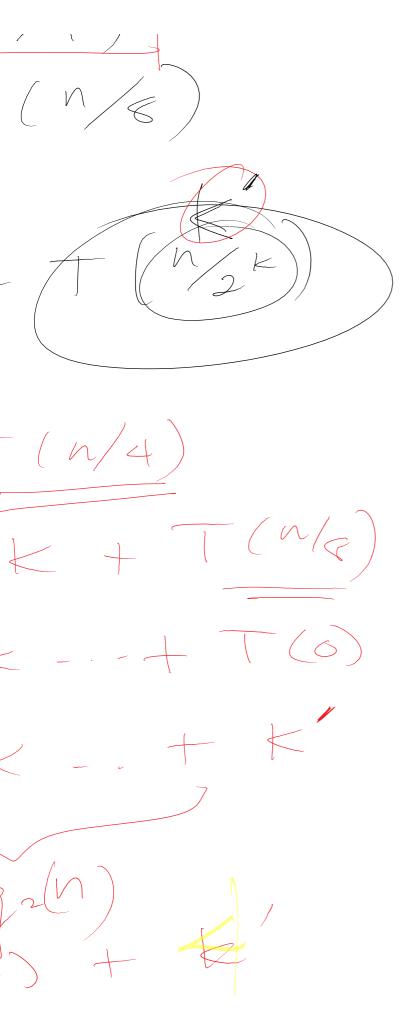
retur hui; 1/8 if (Key Em J < V)

neturn breanch (Key, m+1, ub, V) Obsertu beench (ky, 1/b, m-1, V $\frac{3}{T(n)} = K + \frac{1}{T(n/2)}$

T(n)

(1) (1) (1) (1) (1) (1) (1)

10/21-121-12. 10/4) = K + T T(n) = 1< + X + T X + X + X los laga Ch



= Flagz Ch

Stat,

Olse

Accums

void bubble (int KIS)

7

 $\frac{1}{2}$ $\frac{1}$

for (int v = o') (i < v) $\frac{2}{5} f_n \left(n + j = 0 \right)$ $\frac{2}{5} \left(k + j \right)$ 3 1 (N2 Jubble S

), [++) j < n-j-1ens I > Key [it 1] vap (Key [it], Key [it]) $(n) = S(n^2)$ $3N^2+2N$ t (ky, n) 1 / Ken, n 50)

2 Cont 2 65.

eend (key, n, 50)

estach (key, n, 20)

, $\left(\frac{2}{\sqrt{2}} \right)$