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Morthemetical Analysis: Bubble Sort S(N tai) [Jo tail) traklud biol Sool Swap; Do While Worst Case: N-1 suap = falso; For (int 1=0; 1<N-1; 1+1) } for worst case: N-1 /5 (a[i] > a[i+i]) } int temp = acili 2[1+1]=0[11] a[1+1] = temp ; Swap = true; i (qua) = Lilus In worst case, do while doops N-1 times and for each loop the for-loop loops N-i times. Some as selection Sort (n-1)+(n-2)+(n-3)+ 1 = T(n) = Operations O $T(n) = \sum_{i=1}^{n-1} i = 1 + 2 + 3 \dots N-1$ 2 TCM2 = (N2/41) + (N-2-22) + ... + (2+N-2) + (N+N-1) = N+N+N... 2 (n-1) $T(N) = \frac{N_3 - N}{N} \longrightarrow O(N_3)$

$$T(n) = \sum_{i=1}^{N-1} i = 1 + 2 + 3 \dots N-1$$

$$2T(n) = (n-1) + (n-1) + (n-1)$$

$$T(n) = \sum_{i=1}^{N-1} i = 1 + 2 + 3 \dots N-1$$

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