

Bubblesort running time

We have

- ▶ $t(1) = C_1$

- ▶ $t(n) = C_2n + t(n - 1)$

Let $C = \max\{C_1, C_2\}$.

In an earlier class, we proved (using induction) that that $\forall n \in \mathbb{Z}^+, t(n) \leq Cn^2$.