Worst-Case Time Complexity of Insertson
Step 1. Write a formula
$T_{\omega}(n) = T_{\omega}(n-1) + O(n)$
Worst
Size of inqui
Step J.
Guess $T_{\omega}(n) = O(n^3)$
Need to find CDO S.t. Yn Tw(n) < C. n
Step 3.
Check. Constant
$T_{\omega}(n) = T_{\omega}(n-1) + \alpha \cdot n$
\( \left( (n-1)^2 + \alpha \cdot \tau \) \( \left( (n-1)^2 + \alpha \cdot \tau \cdot \tau \) \( \left( (n-1)^2 + \alpha \cdot \tau \cd
Average-Case Time Complexity of Insertson
Step 1. Write a Formula
$T_{AVG}(n) = T_{AVG}(n-1) + O(n)$
Steps 283: Same as Worst-Case.
2 leps or a 3. Jame of the state of