

# Layouting Example

Insertion Sort as an example:

- Best Case:  $T(n) \approx cn + c'n - c''$      $T(n) = O(n)$
- Worst case:  $T(n) \approx cn + (c'/2)n^2 - c''$      $T(n) = O(n^2)$

Q: Is  $n^3 = O(n^2)$ ?



**No.**