

"Sorting Problem"

— numbers, strings

Have an array w/ a bunch of items

Goal: put them into sorted order

└ low → high

└ what if you wanted to sort (x,y) coordinates?

Why is this important?

Practically, everything needs/can be sorted.

Quadratic-time algorithms $O(n^2)$

└ # of items that you're sorting.

Selection sort — good thing is simplicity.

— bad thing — never get $O(n)$ performance

— always $O(n^2)$

Bubble sort — s/oooooooooooo

Insertion sort — If you're going to use an $O(n^2)$ sort, use this one.