

Sorting

Sorting

- sorting = process of arranging group of items into ascending/descending order based on some criteria
- examples:
 - alphabetize list of names
 - sort list of numbers from highest to lowest
 - sort people by height
 - sort people by age

Sorting

- We've been using built-in sorting methods/functions `.sort()` or `sorted()`
- How do we actually describe an algorithm used to sort?
- Is there more than one?

Activity

- Need 5 volunteers

Bubble Sort

- Make passes through list
- On each pass, swap out of order elements

Bubble Sort - Complexity

- How many passes through list are made?
- How much work does each pass take?
- Can we stop early if not all passes needed?