SORTING

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- 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 Collections.sort() or a lambda function
- How do we actually describe an algorithm used to sort?
- Is there more than one?

ACTIVITY

- Need 5 volunteers

SELECTION SORT

- Goes through list positions one by one
- Selects value that should go there
- More formally:
  - go through list to find smallest value
  - swap that value with value in first spot
  - scan rest of list to find next smallest value
  - swap that value with value in second spot
  - continue with remaining spots for each position in the list

INSERTION SORT

- Breaks list into to parts (sorted and not sorted)
- Goes through values
- For each value, inserts into the right spot in the sorted list
- Move onto next value, repeating process