

Wubin Peco

APCS pd.2

HW04 - so easy even a turtlecave can do it

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## ALGORITHM

Step by Step procedure to sort that gosh-darned deck!

- 1) Split that thing in half
- 2) Give it to two students
- 3) Repeat above until every kid that is holding a card has only one card.
  - a) We do this because we know, as Mr. Brown stated, a data set of size one will always be sorted
  - b) Combining this knowledge with Odd Future's algorithm to combine two lists that are already sorted, we can begin working back from here.
- 4) Now that everyone has one card, we can start handing back cards, using Odd Future's algorithm each step to combine two sorted lists, starting with one of size one, then size two, and so on and so forth until we have two halves of a deck that are sorted, and we can employ his algorithm one last time to emerge with a sorted deck.