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//APCS2 pd08
//HW04 -- So Easy, Even a Caveturtle Can Do It
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Hand 2 distinct people half a deck of cards. They will in turn hand another 2 distinct people the cards that they received, each with approximately a quarter of the original deck. They then pass half of what they have to another distinct person, and the rest to another distinct person. Continue until the most basic number of elements have been reached (everyone has 1 card). Now, there should be n people with 1 card, n being the number of cards in the original deck. From here, people should go up the chain, comparing their values. The two lowest tier people compare and put their cards in ascending order and hand it to the person who originally gave them the cards. That person compares to the other person who recieved cards from their "supervisor" - the person above them in rank who handed them the cards. They put the cards that they received in order and send it to their "supervisors". The "supervisors" compare those cards with the corresponding person from their "supervisors". Those cards are put in order. This continues up the chain until the person who originally handed out the cards are given the cards back, sorted.

In the end, this can be shown as a branching tree where each branch has two branches coming down until all branches terminate at branches where there are only 1 card. Going up that branch from the very bottom will give a sorted list.