APCS :: Card Sorting Algorithm Solution

Here is an example of a solution to the card sorting algorithm problem

**InsertionSort**
Given: A set S of n playing cards
Define: "Area 1" - a row of n card-positions initially containing all the cards in S
       "Area 2" - an initially empty row of n card-positions

1. Move leftmost card from area 1 into area 2
2. If there is a card in area 1 then
3. move left-most card in area 1 to the left of all cards in area 2
4. otherwise DONE-SORTED
5. put left and right hands on first two cards in Area 2
6. flip over the cards under left and right hands
7. if card on the left > card on the right then
8. exchange the positions of the cards in the row
9. Using left hand on the left face-up card and right hand on the right face-up card, flip the cards face-down.
10. Shift each hand one position to the right in area 2
11. if right hand is on a card then
12. go to step 5
13. otherwise go to step 2