

Data sort using cards. Suppose you are sorting a set of cards. The right hand holds several cards which are sequentially sorted by numbers arranged from right to left, say for example, five cards with 10, 6, 5, 3, 2 arranged from right to left. Your left hand is picking up the top card from a pile of card deck. Now you insert the card that you have picked from the pile of deck into the right position within the right-hand cards, in a sorted order from right to left.

Write the instructions in a step by step manner. Note down even a minor step that you have taken to insert the left-hand card into a correct position within the set of right-hand cards so that the right-hand card set remains sorted from right to left.

Here are the steps for inserting the left-hand card into the correct position within the set of right-hand cards to keep their sorted order:

1. Hold the set of right-hand cards in your right hand, with the cards sorted from right to left.
2. Pick up the top card from the deck with your left hand.
3. Compare the card's value in your left hand to the value in your right hand's set.
4. Insert the card from your left hand to the left of the rightmost card in the set of right-hand cards if the value of the card in your left hand is greater than or equal to the value of the rightmost card in the set of right-hand cards.
5. Compare the value of the card in your left hand to the next card from the right in the set of right-hand cards if it is less than the value of the rightmost card in the right-hand cards.
6. Step 5 should be repeated until you find the correct position for the card in your left hand.
7. Insert the card from your left hand into the correct position in the cards from your right hand.
8. Repeat steps 2-7 until no more cards are in the deck pile.
9. You have successfully sorted the deck of cards in a right-to-left order.