

Name(s) _____ Period _____ Date _____

KEY - Activity - Minimum Card Algorithm



Write your algorithm below. We suggest writing it out as a numbered list of instructions to make the sequence clear.

My Algorithm To Find Minimum Card

- 1 Place the LEFT HAND on the left-most card in the row of cards
- 2 Place the RIGHT HAND on the card to the immediate right of the LEFT HAND
- 3 Pick up both cards
- 4 Compare the values on the cards in the LEFT and RIGHT HANDs.
If the card in the RIGHT HAND is smaller, go to line 5
Otherwise go to line 7.
- 5 Put the LEFT HAND card back down on the table in its original position and move the card that's in the RIGHT HAND into the LEFT HAND.
- 6 Place the RIGHT HAND back down on the table in its original position (which should now be an empty space in the row). Go to Line 8.
- 7 Put the Right-Hand card back down on the table in its original position.
- 8 Shift the RIGHT HAND one position to the right in the row of cards (it should be touching the next face-down card in the row).
- 9 If the RIGHT HAND is past the end of the row, go to line 10.
Otherwise, pick up the card the RIGHT HAND is touching, and go to line 4.
- 10 STOP. The smallest card is in your LEFT HAND.