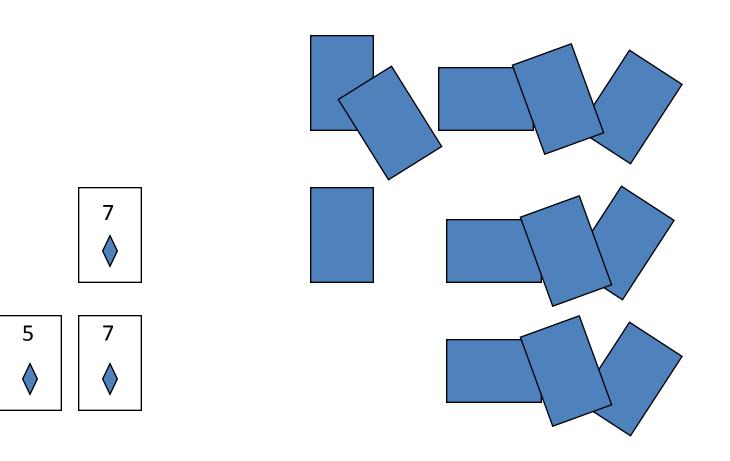
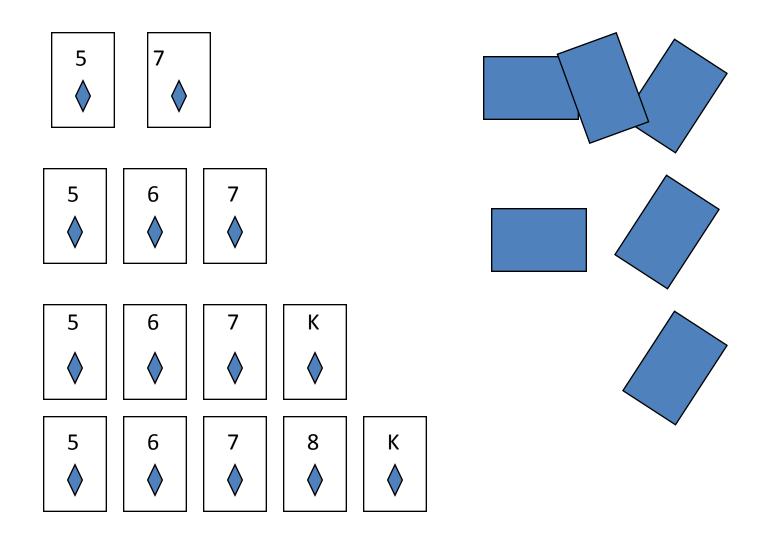
Insertion Sort

- Insertion sort is slower than quick sort, but not as slow as bubble sort, and it is easy to understand.
- Insertion sort works the same way as arranging your hand when playing cards.
 - Out of the pile of unsorted cards that were dealt to you, you pick up a card and place it in your hand in the correct position relative to the cards you're already holding.

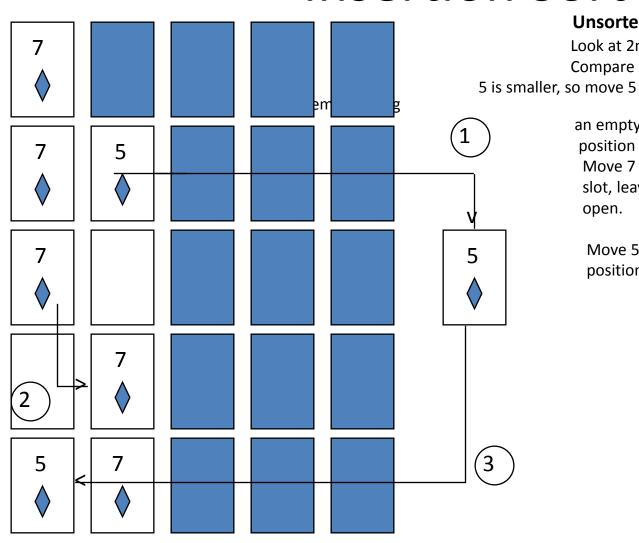
Arranging Your Hand



Arranging Your Hand



Insertion Sort



Unsorted - shaded

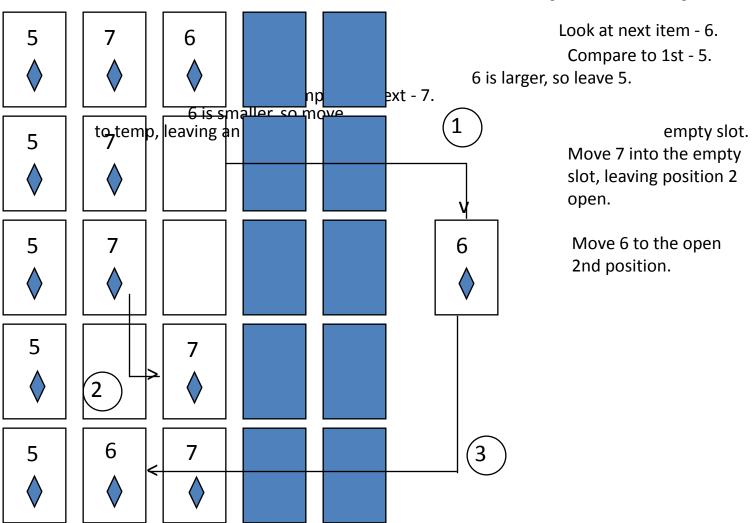
Look at 2nd item - 5. Compare 5 to 7.

an empty slot in position 2.

Move 7 into the empty slot, leaving position 1 open.

Move 5 into the open position.

Insertion Sort (con't)



6

Insertion Sort (con't)

Look at next item - King.

Compare to 1st - 5.

R
ing is larger, so ave 5 where it is.

Compare to next - 6. King is larger, so leave 6 where it is.

Compare to next - 7.
King is larger, so
leave 7 where it is.

Insertion Sort (con't)

