3.0 Iterator interface

Write a class that implements the Iterator interface found in the java.util package. Your class will contain an array containing the 13 cards in a suit from a deck of cards in increasing order (a simple char[] should be enough here). The first call to next method returns '2', the subsequent call returns the next card, '3', and so on, up to 'A'. The hasNext and remove implementations are quite self explanatory.

After you finished and tested the first implementation, consider changing the type of your array from char to Card; create a new class for that. It is up to you what attributes you define inside the Card class, but you should be able to at least identify a card by its suit and number. Create another interface OrderedIterator which extends the Iterator interface with the int put(Comparable comparable) method. The implementation of this method should add an element to the original array in order as long as the element does not exist in the array already. You can either use the Comparable interface we have written during the last lab or the one from the java.lang package.

Consider writing some unit tests as well!