The following function is supposed to sort the elements of a stack:

sortStack(stack S)

      if stack is not empty:

            temp = pop(S);

            sortStack(S);

            sortedInsert(S, temp);

The sortedInsert function inserts an element in order into an already sorted stack. Provide an implementation for the sortedInsert function.

Note that the stack should be sorted such that the top element is the largest.