Exercise 6. (More operation functions for dynamically linked list)

In exercise 5 you implemented some operation functions for dynamically allocated linked list. The type definition of LinkedList was

Continue to develop further the program of exercise 5. Write the following operation functions for a character list:

```
void delete_first();
void delete_last();
int find_pos(T item);
```

The find_pos function returns the order number (starting from 0, the first item) if item is found and -1 otherwise.

Use the following main function to test your new list operations:

```
public static void main(String[] args) {
        LinkedList<Character> list = new LinkedList<Character>();
        Scanner s = new Scanner(System.in);
        int order no;
        char to be searched;
        try {
            list.delete last();
            list.insert to end('?');
            list.delete last();
            list.insert to end('x');
            list.insert_to_end('a');
            list.insert_to_end('b');
            list.insert_to_end('c');
            list.insert_to_end('d');
            list.insert_to_end('y');
            System.out.println("List: " + list);
            System.out.print("Enter first character to be searced?");
            to be searched = s.next().charAt(0);
            if ((order no = list.find pos in list(to be searched)) >= 0)
                System.out.println("The order no is " + order no);
            else
                System.out.println("Not found");
            System.out.print("Enter second character to be searced ? ");
            to be searched = s.next().charAt(0);
            if ((order no = list.find pos in list(to be searched)) >= 0)
```