Consider the reference-based singly-linked lists defined in class.

1. Implement all the functions described in Table 4.1.1. in the textbook.

2. Implement the following functions:

   (a) Copy(list) Builds and returns a copy of list.
   (b) ItemAt(list,i) Returns the data item at position i in list.
   (c) Pop(list,i=0) Remove item at position i in list. If i is not specified, it removes the first item in list.
   (d) Count(list,x) Returns the number of times x appears in list.
   (e) Index(list,x) Returns the index of the first item whose value is equal to x list.
   (f) Clear(list) Removes all items from list.
   (g) Sublist(list,start=0,end=GetLength(list)) Builds and returns a sublist of list, from element start to element end (not inclusive).
   (h) Reverse(list) Reverses the elements in list (in place).

As usual, write a report describing your work.