HW-3 due 10/10/03

Hand in typed or handwritten C++ code containing your solutions of the following problems (you do not need to run the code).

1. Write a function, which computes the average of data fields inside a linked list.
2. Write a function with three input arguments: the head pointer of a linked list and two integers m and n. The function should follow the stages:
   - Find the nodes inside the list with the first occurrence of number m and the first occurrence of number n.
   - After finding these nodes swap their data fields.
   If one or both of numbers m,n do not occur inside the list no action should be taken.
3. Nodes of a linked list are indexed 1,2,3,4,5,…,list_size. Write a function, which out of a given linked list produces another list containing only the nodes with odd indices.