INFO216 E
Imperative Programming II

Session2 11.12
Wed. Sep. 5th pm
Duration: 2 hours

Lebanese University
Faculty of Sciences 1

Exercise I

1. What happens as a result of calling the fclose function on a file that was opened in <u>read mode</u>? What happens as a result of calling the fclose function on a file that was opened in <u>write mode</u>?

Exercise II

2. Write a function "edit" that erases all the words ending with the suffix "tion", such as "invitation" from a text file, given its name.
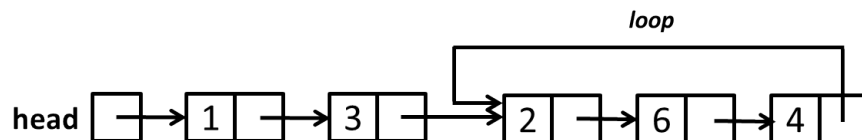
Exercise III

3. Given a <u>doubly linked list</u> containing only three integers 1, 2, and 3, write the function "sort" which sorts the list without exchanging the values. The function can only change the value of the pointer fields (previous and next) but not the data field. The function can neither create nor destroy nodes.

Example   Input list : 1->3->2->1->2->3->2->1->1 output list: 1->1->1->1->2->2->2->3->3

Exercise IV

4. Given a singly linked list which may, or may not, contain a loop, and the loop may, or may not, start from the head node. Write the function "containsLoop" which determines if the given list contains a loop, and indicates the node at which the loop is starting.

The End