Programming Assignment 3

Due by 9월 28일 오후 9시

- 1. For this programming assignment, we implement the address book with a linked list. Implement add(), delete() and print_list(), and submit "backend.c". DO NOT CHANGE ANYTHING ELSE!
- 2. Make sure to read all the source files provided, especially "backend.h" and "memory.h" and of course "backend.c", and understand the structure of the program.
- 3. A newly add()ed record are stored at the front of the linked list. As always, data is the pointer to the linked list that stores the data for the address book.
- 4. Duplicate names are allowed; a search gives the first record found, and a deletion deletes the first record found.
- 5. The functions new_node() and free_node() are implemented in "memory.c," but we provide it only in compiled form as "memory.o". Since it is linux-binary, it works only in linux.

 The memory management needs an initialization, hence we have init(), which calls init_pool(). We will discuss the memory management in the next class and the next programming assignment. Note that POOL_SIZE is defined to be 10 in "memory.h". When add(name) is called, if an overflow occurs, then add() prints a message "Can't add. The address book
- 6. Note that we don't have search_index() this time. Why??? Functions search(), delete() and print_list() are supposed to examine the nodes one by one from the first node until the task is accomplished.
- 7. Starting from this assignment, we directly deal with pointers. Be very careful.

is full!" and our program waits for a new command.

8. Submit with the following command:

5분반: submit dsta hw3a, 6분반: submit dsta hw3b.

To submit kth assignment, you are supposed to use either "submit dsta hwka" or "submit dsta hwkb".