Programming Assignment 3

Due by 2018년 10월 13일 오후 9시

- 1. Implement new_node(), add(), delete() and print_list(), and submit "backend3.c". DO NOT CHANGE ANYTHING ELSE!
- 2. For this programming assignment, we implement the address book with a linked list. The records are stored in the linked list in an alphabetical order. As always, data is the pointer to the linked list that stores the data for the address book.
- 3. We implement our own memory management as discussed in the class: Allocate a chunk of memory using an array pool[MAX_RECORD] and initialize it with init_pool() to make it another linked list. And new_node() and free_node() do the memory management. Note that MAX_RECORD is defined to be 5. So, make sure to check if overflow occurs with your implementation of new_node(). If an overflow occurs, your program quits with exit(0).
- 4. Note that we don't have search_index() this time. Why??? Functions add(), search(), delete() and print_list() are supposed to examine the nodes one by one from the first node until the task is accomplished.
- 5. Starting from this assignment, we directly deal with pointers. Be very careful.