[Data Structure Homework #3]

다음을 C 프로그램으로 구현해서 소스(xxx.c 파일)만 zip으로 묶어서 공학인증게시판에 올릴 것.

제목 : [자료구조 과제 #3] 학번_이름

첨부파일 : 학번_이름.zip

Implement the following problems by C programming and upload only the source code files (such as xxx.c and xxx.h) as a zip file compressed to the homework board at abeek.knu.ac.kr.

Subject : [DS HW #3] StudentID_Name

a Zip File Attached : StudentID_Name.zip

1. 정렬 List (오름차순) 를 **array와 linked list 두 가지 버전**으로 구현하시오. 이 구현한 부분을 이후 문제에서는 활용할 것.

   Implement two versions of Ordered List (Ascending order) using **array** and **linked list**; you should **implement both of them**. You should **utilize them at the following problems**.

2. 수의 정렬 구현.

   Implement a number sorting utilizing the two versions of List implemented. You should implement 2 programs of the sorting.

1번에서 구현한 두가지 버전의 list로 입력되는 정수에 대한 정렬(오름차순)을 구현하시오. 굵은글씨는 프로그램에서 출력되는 부분, 얇은 글씨는 외부 입력

Bold type letters are displayed. Non-bold type letters are input.

실행 예) Execution Example)

In (0), Search (1), Out (2), Exit (3) : 0

In : 5

The current status of List : 5

In (0), Search (1), Out (2), Exit (3) : 0

Input : 1

The current status of List : 1, 5

In (0), Search (1), Out (2), Exit (3) : 1

Search : 2

My List does not have 2.

The current status of List : 1, 5

In (0), Search (1), Out (2), Exit (3) : 0

In : 3

The current status of List : 1, 3, 5

In (0), Search (1), Out (2), Exit (3) : 1

Search : 3

My List has 3.

The current status of List : 1, 3, 5

In (0), Search (1), Out (2), Exit (3) : 2

Out : 3

3 was removed.

The current status of List : 1, 5

In (0), Search (1), Out (2), Exit (3) : 3