**C++ Programming Assignments – L1**

# Linked list

Write a program in C to manipulate linked lists. The input to the program will be a sequence of instructions of the following categories:

1. **Insert name age**: create a node with item as the info field and insert into the current list.

* The list should always be maintained in sorted order in increasing order of age. If there is more than one person of same age, the order should be as in the input. You may assume that the input is valid and correct.
* You may assume that the name is always a single word with no spaces within. The age will be a positive integer.

1. **Remove N**: remove the *Nth* item from the list.

* While executing remove, if the list does not have enough elements, the command should be ignored.

1. **Print N**: print the *Nth* item from the list. The name should be printed first and then the age with a space in between.

* While executing print, if the list does not have enough elements, the command should be ignored.

1. **Stop**: end of instructions

Each of the instructions occurs on a different line.

Terminate each line output with a newline character.

**Sample Input/ Output**

**Input**

insert Sunil 40

insert Moha 30

print 1

insert Ganeshan 35

remove 3

print 1

stop

**Output**

Sunil 30

Sunil 30