Description:

This assignment allows you to practice implementing linked list. Use Command Line to input numbers including \( n \) for the number of elements, \( m \) for indicating the input integers must be in the range of 0 to \( m - 1 \), and \( s \) is a seed of \texttt{srand()}\texttt{), which is used for \texttt{rand()}\texttt{ to generate \( n \) random numbers. All of three numbers are in the range of 1 to 100. You are required to do:

1. (30\%) Use the following node structure to create a singly linked list (SLL), and print its values of each node from head to tail on the screen.

   ```c
   struct node {
       int value;       /* data stored in the node */
       struct node *next; /* pointer to the next node */
   };
   ```

2. (60\%) Then, use \texttt{quicksort} algorithm to sort this singly linked list, and print its values of each node from head to tail on the screen.

   In this assignment, you \textbf{may} need the following functions for example: \texttt{SLL\_build(...)}, \texttt{SLL\_insert(...)}, \texttt{SLL\_concat(...)}, etc.

3. (10\%) Moreover, you should print your report and hand it in at 資訊系館 65502 before 6:00 PM, 01/02/2019.

   (NOTE: You are not allow to declare or to use any \texttt{array} in this program, or you will get 0 point.)

Command Line:

```
./hw8 n m s
```
Example Output

Original SLL: 5 6 2 0 4 3 1 2 0
Sorted SLL: 0 0 1 2 2 3 4 5 6