7.2 - A Little Bit of Lab5 (5 points)

- Refer to the full directions for Lab5 if you need to: https://docs.google.com/document/d/1Yh8zNchxV2V3-8jg4dg6PvJlymOa4WivgNeD0dA https://docs.google.com/document/d/1Yh8zNchxV2V3-8jg4dg6PvJlymOa4WivgNeD0dA https://docs.google.com/document/d/1Yh8zNchxV2V3-8jg4dg6PvJlymOa4WivgNeD0dA https://docs.google.com/document/d/1Yh8zNchxV2V3-8jg4dg6PvJlymOa4WivgNeD0dA https://docs.google.com/document/d/1Yh8zNchxV2V3-8jg4dg6PvJlymOa4WivgNeD0dA
- 2. Write a header file named linked_list.h. The header file should define a struct for a linked list node that contains two members: an int named value and a pointer to a node named next. typedef this struct to type Node. linked_list.h should also declare the following functions:

```
Node* insert(Node *p, int value);
void print_list(Node *p);
Node* free_list(Node *p);
Node* delete(Node* p, int value);
```

Be sure to include a header guard!

- 3. Create a C file named linked_list.c and complete the print_list() function.
 - a. print_list(). This function should take the head as an argument and print the contents (int values) of the list, from head to tail. For example, print_list() on the linked list in the diagram above would print:
 5 10 20 1

If the list is empty it should print:

```
[empty list]
```

The print_list() function should print a newline character at the end.

Turn in your code to moodle in lab5.2.tgz It should have:

```
- linked_list.h
```

- linked list.c

- lab5.txt (that has your name as the driver)

There is a test main() for you in:

/home/msarris/csci235/lab5/test7.2.c

BONUS:

Write a script that will:

- compile your code
- run your code and redirect the output to a file
- check that file is the same as a file containing the correct answers
- print a message congratulating or shaming your code

Turn your script in with your lab5.2.tgz