CSE 2100 – Data Structures & Analysis of Algorithms

Lab #2 – List

Labs are evaluated along axes of correctness, design, and style, with scores ordinarily computed as 3 × correctness + 2 × design + 1 × style.

1. Write a function called `insert_node` with a prototype of
   ```
   bool insert_node (int value);
   ```
   that creates a new node for a given value and inserts it into a list.

   NOTE: This function inputs elements in sorted order. It does not accept duplicates.

2. Write a function called `print_nodes` with a prototype of
   ```
   void print_nodes(node* list);
   ```
   that print out the value of all elements in the linked list.

3. Write a function called `free_nodes` with a prototype of
   ```
   void free_nodes (node* list);
   ```
   that frees all elements in your linked list.