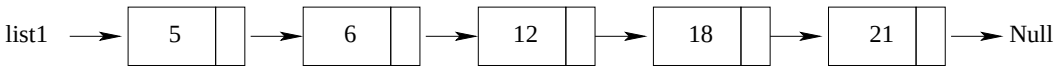
CS 1713
Introduction to Computer Programming II
Recitation 13

1. (100 pts) Write a function to find the middle node in a linked list and return a pointer to the middle node. Function prototype is given below.

   ```
   node *middlenode(node *list1)
   ```

   If the list has $2k+1$ elements where k is an integer ≥ 0, return the $(k+1)^{th}$ node from the start. If the list has $2k$ elements where k is an integer ≥ 0, return the $(k+1)^{th}$ node from the start. For the following linked list the function returns a pointer to node containing 12.



This is an in-class exercise and no submission is required.