16.216: ECE Application Programming

Fall 2014

Lecture 36: Key Questions
December 8, 2014

1. Describe how to maintain a sorted linked list.

2. Write each of the following functions:

a. Adding an item to a sorted linked list

- Use **addNode()** as a starting point
- Instead of adding node at beginning, find appropriate place in list and then add
- Function should return pointer to start of list after it has been modified

```
LLnode *addSortedNode(LLnode *list, int v) {




}
```

b. Finding an item in a sorted linked list
   - Use **findNode()** as starting point—should perform same operation, but more efficiently
   - Function should return pointer to node if found
   - Return NULL otherwise

```
LLnode *findSortedNode(LLnode *list, int v) {




}
```