

Given the following classes:

```
class LL {  
    private:  
        LLN *head;  
};
```

```
class LLN {  
    private:  
        string data;  
        LLN *next;  
};
```

write the method

```
void LL::DeleteFirsts ();
```

This method removes the node containing the string coming first in alphabetical order. If there is more than one such node, this method removes all of them.

For example, if the list were

A-->TISKET-->A-->TASKET-->A-->GREEN-->AND-->YELLOW-->BASKET

after running it would be

TISKET-->TASKET-->GREEN-->AND-->YELLOW-->BASKET

Do not use loops; use recursion only. You may write additional methods in LL and LLN if you wish. You may assume that standard constructors, destructors, accessors, and mutators have already been written. Make sure your code contains no memory leaks

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CS222-61-21W Computer Science I (Andrew A. Poe)
Practice Quiz 8
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Time: 10 minutes

```
void LL::DeleteFirsts () {  
  
    if (!head) return;  
    string first = head->getfirst();  
    head = head->DelAll (first);  
}  
  
string LLN::getfirst () {  
  
    if (!next) return data;  
    string s = next->getfirst();  
    if (data <= s) return data;  
    return s;  
}  
  
LLN * LLN::DelAll (string s) {  
  
    if (next) next = next->DelAll (s);  
    if (data==s) {  
        LLN *t = next;  
        next = nullptr;  
        delete this;  
        return t;  
    }  
    return this;  
}
```