

Northern Michigan University (Marquette Co, MI)

CS201-01-22F: C++ Programming (Andrew A. Poe)
Quiz 10

Name: _____
Friday 2 December 2022 11:00 A.M. EST

Time: 15 minutes.

Given the following classes:

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

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

Write code for the following method:

```
void LL::DelEveryThird ();
```

This method deletes every third node. The word in the node is irrelevant. For example, if the list were A-->B-->C-->D-->E-->F-->G-->H, after running, the list would be A-->B-->D-->E-->G-->H. Use no loops; use recursion only. Don't worry about memory leaks. You may assume sets and gets already exist, but you must write any other method you use.

```
void LL::DelEveryThird () {  
  
    if (head) head->DelEveryThird (1,nullptr);  
}  
  
void LLN::DelEveryThird (int ct, LLN *prev) {  
  
    if (next) next->DelEveryThird ((ct+1)%3,this);  
    if (ct==0) prev->setnext (next);  
}
```