

# Northern Michigan University (Marquette Co, MI)

CS201-01-22F: C++ Programming (Andrew A. Poe)  
Quiz 7

Name: \_\_\_\_\_  
Friday 4 November 2022 11:00 A.M. EDT

Time: 10 minutes.

Given the following Linked List class definitions:

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

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

Write the code for:

```
int LL::TotalLength ();
```

This method returns the total length of all the strings in the linked list. For example, if the linked list were WHY->AM->I->HERE? the method should return 11.

Do not use loops. Use recursion only.

```
int LL::TotalLength() {  
  
    if (!head) return 0;  
    return head->TotalLength();  
}
```

```
int LLN::TotalLength() {  
  
    int l=s.length();  
    if (next) l += next->TotalLength();  
    return l;  
}
```