

Northern Michigan University (Marquette Co, MI)

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

Practice Quiz 10

Wednesday 30 November 2022 11:00 A.M. EST

Time: 15 minutes.

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

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

Write code for the method: `void LL::DelBeforeME () ;`

This method deletes all nodes that come immediately before a node containing the string "ME". The "ME" nodes themselves are not deleted. I guarantee you that there will not be two "ME"s in a row. Use recursion only; do not use loops. Do not worry about memory leaks. For example, if the list were `HELP-->ME-->HELP-->ME-->PLEASE`, after running, the list would contain `ME --> ME --> PLEASE`.

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```
void LL::DelBeforeME () {  
  
    if (head) head->DelBeforeME  
    (nullptr, this) ;  
}  
  
void LLN::DelBeforeME (LLN *prev, LL *L)  
{  
    if (next) next->DelBeforeME (this, L) ;  
    if (next && next->gets() == "ME")  
        if (prev) prev->setnext(next) ;  
        else L->sethead (next) ;  
}
```