Northern Michigan University (Marquette Co, MI)
CS222-61-21W Computer Science I (Andrew A. Poe)
Practice Quiz 5
Thursday 25 February 2021 10:00 A.M. EST
Time: 10 minutes

Given the following classes:

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

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

write the method

```
string LL::LastEven ();
```

This method returns the string in the linked list *closest to the tail* with an even length. If there are no strings of even length, the method should return "ERROR". For example, if the list were I-->ATE-->FOUR-->HOT-->DOGS-->TODAY, the method should return DOGS. FOUR and DOGS both have an even number of letters, but DOGS is closer to the tail of the list.

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.

Northern Michigan University (Marquette Co, MI)
CS222-61-21W Computer Science I (Andrew A. Poe)
Practice Quiz 5
Thursday 25 February 2021 10:00 A.M. EST
Time: 10 minutes

```
string LL::LastEven () {

 if (!head) return "ERROR";
 return head->LastEven();
}

string LLN::LastEven () {

 string s = "ERROR";
 if (next) s = next->LastEven ();
 if (data.length()%2 > 0) return s;
 if (s=="ERROR") return data;
 return s;
}
```