CSE131 Quiz 6
Using Data Structures
October 18, 2007

1. In a concise English sentence, state the purpose of the following method.

   LinkedList<Color> foo(LinkedList<Color> ls, Color c) {
       LinkedList<Color> result = new LinkedList<Color>();
       for (Color item : ls)
           if (item.getRed() > c.getRed() &&
               item.getGreen() > c.getGreen() &&
               item.getBlue() > c.getBlue())
               result.add(item);
       return result;
   }

2. Recall that if \( s \) is a \texttt{String}, then \( s.length() \) returns the number of characters in \( s \).
   Write a method with the following specification.
   Parameters: a LinkedList\(<\texttt{String}> \) \( ls \) and an integer \( x \). (Assume that \( ls \) is not null.)
   Effect: All elements whose lengths are divisible by \( x \) should be removed from the list.
   Return: The sum of the lengths of the strings in the original list.
   Be sure to modify the given list. Do not create a new one. \textit{Use an iterator to go through the list.}