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CS201: Prof. Roger
P7: Extra Credit Assignment
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The All Green Solution

Your phone buzzes in your pocket.
You check the notification from Sakai that says Professor Roger has
Added an announcement.

But, not just any announcement..
There is a new APT.
APT 9...

You thought that 201 was over, but you were so wrong
It was only getting started, so let me bring you along

On the journey of a lifetime, in java we code
And do not fret, for they will teach you class ListNode!

Clicking on APT 9 you become quite scared
And don't truly know if you are well prepared
Until you discover the APT is on Trees
And you sigh a big sigh and fall to your knees

This concept has been particularly hard for you to grasp
But I'm telling you, be patient, you will understand and pass

You sit down with a piece of paper and pen
And start writing ideas that don't work, but try again!

You are ready to test it, but do not get frustrated
There is always a way that your code can be updated!

It may be a Null Pointer or an out of bounds error
So be sure to check the code again to avoid this big scare

You made the mistake of returning an int array
But you changed this quite quickly the next day

Through office hours and friends to help,
There is surely no reason for you to yelp

It has been a few days and you begin to lose faith
And after changing line 27, you notice the 28th
A line that is causing the addition of 3,
Something you knew was messing up the tree!

You feel energy run through your veins as you rapidly type,
Knowing all well that soon you will feel the hype

Choosing the file, and clicking the test,
Your heart is quite literally beating out of your chest.

It may take a moment, but the page will load
A glorious bar of all green from your code!

You are happy as a clam sitting at your chair
Smiling, even cheering, and perhaps alone, to be fair.

Now that it is over, I will miss the green bar
Making me feel proud and grateful that I've come so far

But fear not I will be back to conquer the fear
Of a hard problem set, come the new year.