Programming Exam Choice 17

Download the question17.cpp file from the moodle to start.

Part 1. 10 points

Recall the function that converts a decimal unsigned integer to a binary string we discussed in class:

Modify this code to convert a decimal integer to a hexadecimal string (base 16). Hint: you will need a way to choose the right digits, 0 – f, and then convert them to characters '0' – 'f'.   (Adding '0' will help. I found that it was helpful to build these characters into a string and grab from that in solving this problem.)

```
string convert_decimal_to_hex(int num, unsigned int base)
{

}
```

Your TA will grade anything you have ready before the deadline, but upload your code to the moodle anyway.

Logic of problem laid out in comments:	50%
Code compiles with no errors or warnings:	10%
Code has no run time errors:	10%
Code gives correct answers for all inputs:	20%
Code is clean and easy to read:	10%