CIS 2.55 Midterm

1. What does Perl stand for?
2. List some basic Perl data types.
3. Use `if` statements to find maximum value of scalars `$a`, `$b`, and `$c`.
4. Given `@values`, write Perl code to find the average value.
5. Using Perl code, display every non-empty line in a text file: `input.txt`.
6. Declare an array of hashes of arrays of hashes (Don't write out pages and pages of values, just supply a few sample values for it).
7. Using `push` or hash assignment, add values to each of the hashes or arrays defined in previous question.
8. Name some differences between Perl, C/C++, Java.
9. For an html file `index.html`, write code to display just the text (without any tags).
10. Same as previous question, except display all tags and no text.
11. Same as previous question, except remove all the html comments. Those are the ones that start with `<!--` and end with `-->`.
12. Write a for loop to find the maximum in an `@array`.
13. Write a for loop to find the maximum in a `%hash`.
14. For an html file `index.html`, write code to replace every `<` with `[`, and every `>` with `]`, in effect replacing every html tag with `[tag]`.
15. Same as above, only save the file as `index.html.2`.
16. Same as above, only save the file as `index.html`. Note that you don't want to be writing to this file, *while* you're reading from it.
17. Calculate the sum of numbers from 1 to 1000.
18. Write a subroutine called `swap` that would swap the first two arguments.
19. Create a reference to subroutine `swap` and call it.
20. How does a subroutine know how many arguments you've passed it?