

CMSC 106 Quiz 1 Worksheet

The first quiz for the course will be on Fri, Sep 18. The following list provides additional information about the quiz:

- The quiz will be a written quiz (no computer).
- The quiz will be in lab.
- Closed book, closed notes quiz.
- Answers must be neat and legible.
- Quiz instructions can be found at <http://www.cs.umd.edu/~nelson/classes/utilities/examRules.html>

The following exercises cover the material to be included in this quiz. Solutions to these exercises will not be provided, but you are welcome to discuss your solutions with the TA or instructor during office hours. It is recommended that you try these exercises on paper first (without using the computer).

Exercises

1. How many different values can you represent with 3 bits?
2. Which Unix command do you use to see the contents of a directory?
3. Which Unix command do you use to change to your home directory?
4. Which of the following are valid identifiers in C?
Coffee coffee 4house cat&dog home*party
5. Write a complete C program that prints the message "Welcome to Maryland".
6. Complete the following main function so it prints the sum and product of x and y. The program must generate the messages "Sum is: " followed by the sum, and "Product is: " followed by the sum.

```
int main() {  
    int x = 10;  
    int y = 20;  
  
    /* your code here */  
  
    return 0;  
}
```
7. Write a complete C program that prints the message Joe "the boss" Smith.
8. Using the #define preprocessor directive define a constant that represents PI (3.1415).
9. Using the above constant, define a main function that computes the area and circumference of a circle that has 4 as radius.