

CMSC 106 Quiz 2 Worksheet

The next quiz for the course will be on Wed, Sep 14. 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. Read the document available at:

<http://www.cs.umd.edu/~nelson/documents/SuggestionsForWritingComputerPrograms.htm>

2. Which of the following values are considered true in C?

0 10 -17 "hello"

3. What are the initial values of the variables in the following program?

```
#include <stdio.h>

int main() {
    int age;
    float salary;

    return 0;
}
```

4. 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 product.

```
#include <stdio.h>

int main() {
    int x = 10;
    int y = 20;

    /* your code here */

    return 0;
}
```

5. Using the #define preprocessor directive define a constant that represents PI (3.1415).
6. Using the above constant, define a main function that computes the area and circumference of a circle that has 4 as radius.
7. Write a complete C program that reads two integer values representing the base and height of a triangle. After reading the values the program will print area of the triangle.
8. Write a complete C program that reads two integer values and prints 0 if the first value is divisible by the second, and a value different than 0 otherwise.