The exam will be closed book and closed notes. The following questions are representative of the type of questions that will be on the exam. A sheet summarizing C language syntax will be provided. No calculators will be allowed. There will be 10 problems on the exam: 6 multiple choice/short answer (similar to samples 1-3) and 4 analysis/programming problems (similar to samples 4-6).

1. Which of the following is not a strength of C.
   - a) Efficiency
   - b) Standard library
   - c) Flexibility
   - d) Object Oriented Support
   - e) None of the above

2. A __________ translates a program into machine instructions.
   - a) Compiler
   - b) Preprocessor
   - c) Linker
   - d) Debugger
   - e) none of the above

3. What would be printed by the printf() in the following code?
   ```c
   int i=2, j=1;
   switch(j%i) {
     case 0:  printf("Zero");
     case 1:  printf("One");
     case 2:  printf("Two");
     case 3:  printf("Three"); break;
     default: printf("Default");
   }
   ```
   - a) Zero
   - b) ZeroOneTwoThreeDefault
   - c) Three
   - d) OneTwoThree
   - e) none of the above

4. What output does the following program fragment produce?
   ```c
   int sum = 0;
   for (int i=1; i<6; i++){
     if(i%2)
       continue;
     sum += i;
   }
   printf("%d\n", sum);
   ```

5. Write a program that calculates and prints the minimum, maximum and average of 10 integers entered by a user. The integers must be entered using a loop and stored in an array.

6. Write a program that reads a 5x5 array of integers and prints the row sums and column sums.