

CMSC 132 Quiz 3 Worksheet

The next quiz of the course will be on Wednesday, October 19 during your lab (discussion) session. The following list provides more information about the quiz:

- The quiz will be a written quiz (no computer).
- Closed book, close notes quiz.
- Answers must be neat and legible. We recommend that you use pencil and eraser.

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 TAs and instructors during office hours.

Problem I

1. Write a Java program that copies the contents of a text file to another text file. Repeat this exercise but using binary files.
2. Write a Java program that compares the contents of text two files and determines whether the two files have the same contents. Repeat this exercise using binary files.
3. Write a Java program that reads from the user a file name and a string. The program will create a new file where instances of the provided string have been removed from the file.
4. Write a Java program that counts the number of characters and lines in a text file.
5. Write a Java program that reads a set of integer values and computes the average. The program will give the user the choice of reading data either from the standard input (System.in) or from a file. In addition, the program will give the user the choice of sending the output to the standard output (System.out) or a specific file.

Problem II

1. What is the difference between TCP and UDP?
2. What is the difference between a Socket and a serverSocket?
3. What does the InetAddress represent?
4. What is the IP address associated with the host name "localhost"?
5. Name the steps a client application must complete in order to connect to a server.