16.216: ECE Application ProgrammingSpring 2015

Lecture 27: Key Questions April 10, 2015

2. Explain the use of the fclose() function.	
3. Explain how fscanf() and fprintf() are used for form	atted file I/O.

- 4. **Example:** Write a program to:
 - Read three integers from file myinput.txt
 - Determine the sum and average of those values
 - Write the original values, sum, and average to file myoutput.txt.

5. Explain how fread() and fwrite() are used for unformatted I/O.

6. Explain how to check that the end of a file has been reached, or if an error has occurred.

7. **Example:** Show the output of each of the following short program.

a. Input: Test Input 1 23 4 5

```
void main() {
   char c;
   char buffer[50];
   int i, n;
   i = 0;
   while ((c = fgetc(stdin)) != '\n') {
      if (c != ' ') {
         buffer[i++] = c;
      }
   buffer[i] = '\0';
   fputs(buffer, stdout);
}
```

```
b. Input:
Test1
Test 2
abcdefghijklmnopqrstuvwxyz
This is a test of the fgets() function

void main() {
   char str[25];
   int i;
   for (i = 0; i < 5; i++) {
      fgets(str, 24, stdin);
      strcat(str, "\n");
      fputs(str, stdout);
   }
}</pre>
```

c. Input: