## **16.216: ECE Application Programming**

Fall 2015

Lecture 24: Key Questions October 30, 2015

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

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

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3. Describe the functions used for character I/O.

4. Describe the functions used for line I/O.

5. Describe the standard I/O streams and explain how the file I/O functions can be used to write to these locations.

6. **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: