

## CSI 201 — Computer Science I, Fall 2005

Handout #19 - Thursday, November 10, 2005

1. Quiz Tuesday
2. EC #3 due today
3. Exam #3 November 17
4. Hw #9 due 11/15
5. Other useful functions:
  - (a) `string s; s.size()`
  - (b) `cin.get(character)` (p384)
  - (c) `cin.putback(character)` (388)
  - (d) `cin.peek()`
  - (e) `cin.ignore(1000, '\n')`
  - (f) `char c = toupper(character), tolower` (p390)
  - (g) `getline(cin, line)` (p401)
6. HW #9: Write a program that will read in a line of text and output the line with correct spacing and capitalization. This program will assume that only the first letter in a sentence should be capitalized, and the rest are all lower cased. Extra spaces should be deleted by your program. In addition, any characters appearing between `<` and `>` should be deleted. Your program will do this for a number of lines, entered as the first argument to the program. Your output should exactly match the output given below. You will find that you need to implement the following functions:

```
void lowercase(string &s);
    // lower case everything in this string
void remove(string &s, int StartIndex, int length);
    // remove length # of elements starting at StartIndex
void removetags(string &s);
```

```
        // remove the < and > tags from a string
void removewhitespace(string &s);
        // remove groups of white space to contain only one
```

### 7. Example Input

```
3
the    Answer to life, the Universe, and    everything IS 42.
The pot <bold> calls <bold> the kettle black.
This has a tag in the mid<italics>dle of the word!
```

### 8. Example Output

```
The answer to life, the universe, and everything is 42.
The pot calls the kettle black.
This has a tag in the middle of the word!
```