CSE 333 Section 5

Thursday 26 April 2012

Midterm Practice Problems

1. Grab a handout. Find all the bugs A bug includes:

   - compiler errors and warnings

   - memory leaks

   - memory errors

   - functionality problems

   - bugs do not include style, but feel free to ask questions with regards to it.

Midterm Practice Problems

2. Now we'll write some code

- same rules apply as your exercises

- try not to use your computer's man pages/google: you won't have it on your exam!

- Fill in this function definition:

```c
int generalize_phone_numbers(char *area_code, char *city,
        int city_length, int how_many,
        char **numbers, char ***outputs);
```

- You can assume that outputs will be null

- I'll give you a main function (which you can assume does the right thing) and some sample output.

- There are multiple ways to do this. We'll talk about using character pointers AND using string functions

```c
int generalize_phone_numbers(char *area_code, char *city,
                             int city_length, int how_many,
                             char **numbers, char ***outputs);


int main(int argc, char** argv){
    char *area = "206";
    char *city = "Seattle";
    int count = 1;
    char *numbers = "123-4567";
    char **outputs;
    // Append the area code to each phone number, with city in parens
    int rc = generalize_phone_numbers(area, city, 7, count, &numbers,
                                      &outputs);

    ...
    for(int i = 0; i < count; i++){
     printf("%s\n", outputs[i]);
    }
    ...
}
```

output:
 206-123-4567 (Seattle)