

CS 1713
Introduction to Computer Programming II
Recitation 3

1. (100 pts) Write a program to implement the following functions *recursively*.

```
void reverseDigits(int number)
int numDigits(int number)
```

- The function *reverseDigits* prints the digits of a number in reverse order. For example, for 12345 it prints 54321 and for 287 it prints 782.
- The function *numDigits* finds the number of digits in a number and returns it. For example, for 12345 it returns 5 and for 287 it returns 3.
- Use *argc* and *argv* in your program. You need to use *atoi* to convert the string parameter to an integer and include *<stdlib.h>* to use *atoi*.

Sample output for this recitation is as follows

```
fox01> recitation3 34567
76543
5
```

Output consists of two numbers written on separate lines. First output is for *reverseDigits* and second output is for *numDigits*. Name your program *recitation3.c*

Submit your program electronically using the blackboard system