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

```c
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*