COEN 11 – Project

Due by Saturday, 12/09/2017
Send your code to yfang@scu.edu

You will implement an encrypting/decrypting tool.

The program should be executed with the following parameters:
./a.out <key> file1 file2

The program will
- encrypt/decrypt file1 using the given <key>
- save the encrypted/decrypted version in file2

The key is a number that fits in 8 bits, i.e., a number in the range [0-255].

The program will
- Read file1, 100 bytes at a time, into a char array.
- Encrypt (or decrypt) this array into another array by XOR-ing each byte with the key.
- Write the modified array into file2.

To handle the files, you will need
- fopen, fread, fwrite, and fclose.

To convert the string <key> into a number use function atoi.

To test your program:
- Encrypt file1 into file2.
- Decrypt file2 into file3.
- After that, file1 and file3 should be the same.
- Use command cmp to compare them.