

# Write Up - Assignment 5

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This assignment involved generating RSA public and private keys, and encrypting and decrypting files with the RSA algorithm. Keygen.c generates the keys, encrypt.c encrypts them, and decrypt.c decrypts them.

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In order to test my code, I downloaded the executables posted on Piazza and compared them with my output. I used commands such as:

```
./keygen-dist -v //generate the key  
echo 12345 | ./encrypt-dist | ./decrypt-dist  
./encrypt-dist -i "input.txt" -o "output.txt"  
./decrypt-dist -i "output.txt" -o "decrypted.txt"
```

and compared with the respective commands for my code.

```
./keygen -v //generate the key  
echo 12345 | ./encrypt | ./decrypt  
./encrypt -i "input.txt" -o "output.txt"  
./decrypt -i "output.txt" -o "decrypted.txt"
```

I used test .txt files with random numbers to test if decrypt would properly decrypt files generated by the output of encrypt.