7402 Asn 5 Testing and User Guide

"Slightly more secure than a 5 dollar wrench" Isaac Morneau; A00958405 John Agapeyev; A00928238

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User Guide

Usage is all command line and is as follows.

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usage:
```

./feistel.py [function] [mode] [quality] [input filename] [output filename] function is 'e' for encrypt, 'd' for decrypt mode is 'ecb' for ecb, 'cbc' for cbc, and 'ctr' for ctr quality is 'e' for easy, 'm' for medium, 'h' for hard

./feistel.py t [input filename] runs automated tests to compare the different modes using a given file

For example to encrypt:

./feistel.py e cbc h input.txt output.txt

Would encrypt the file input.txt with AES in CBC mode

Likewise

./feistel.py t input.txt

Would use the input.txt file as the plaintext for running the tests

Testing

Test	Steps	Result
Get usage info	Run ./feistel.py alone	//feistel.py usage: ./feistel.py [function] [mode] [quality] [input filename] [output filename] function is 'e' for encrypt, 'd' for decrypt mode is 'ecb' for ecb, 'cbc' for cbc, and 'ctr' for ctr quality is 'e' for easy, 'm' for medium, 'h' for hard ./feistel.py t [input filename] runs automated tests to compare the different modes using a given file
Argument Validation	Run ./feistel.py asdf	<pre> ./feistel.py asdf usage: ./feistel.py [function] [mode] [quality] [input filename] [output filename] function is 'e' for encrypt, 'd' for decrypt mode is 'ecb' for ecb, 'cbc' for cbc, and 'ctr' for ctr quality is 'e' for easy, 'm' for medium, 'h' for hard ./feistel.py t [input filename] runs automated tests to compare the different modes using a given file </pre>
Sample Encryption	Run ./feistel.py e ecb e LICENSE /tmp/out Run ./feistel.py e ecb m LICENSE /tmp/out	Plissible was terisaace HMS-Brixford: 7402-ass5
		or higher the data is no longer trivially recoverable.

