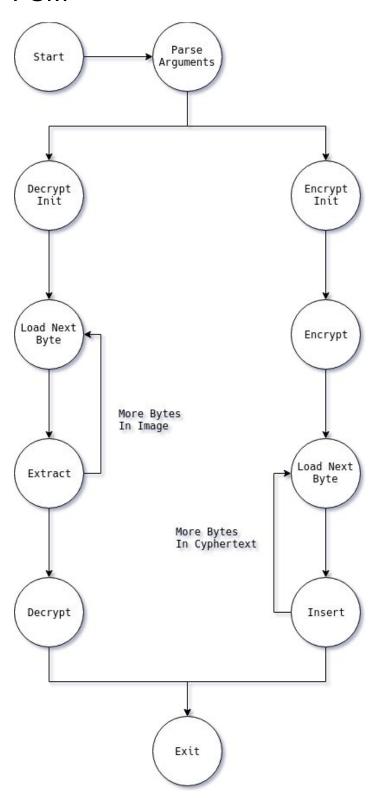
8505 Assignment 2 - Design

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FSM



Pseudocode

Shared

Start

Load the program Initialize the buffers Goto **Parse Arguments**

Parse Arguments

Get files
Get mode
Get password
If the mode is decrypt
Goto **Decrypt Init**If the mode is encrypt
Goto **Encrypt Init**

Exit

Write the save buffers to the files Cleanup the buffers Exit the program

Decrypt

Decrypt Init

Initialized the crypto buffers and variables Goto **Load Next Byte**

Load Next Byte

Get the next byte of the image Goto **Extract**

Extract

Get the bit out of the red green and blue channels Add the bits to the buffer If there are more bytes to read
Goto Load Next Byte
Otherwise

Goto **Decrypt**

Decrypt

From the buffer of bits run the decryption Move the plaintext into a buffer to be saved Goto **Exit**

Encrypt

Encrypt Init

Initialized the crypto buffers and variables Goto **Encrypt**

Encrypt

From the buffer of bits run the encryption Move the ciphertext into a buffer to be saved Goto **Load Next Byte**

Load Next Byte

Get the next byte of the image Goto **Insert**

Insert

Get the bit out of the red green and blue channels
Add the bits to the buffer
If there are more bytes to read
Goto Load Next Byte
Otherwise

Goto Exit