Pseudocode

```
Function steno_image
    Supported image types are png, jpg, bmp, gif
    Get secret file name
    Get carrier image name

    If carrier image type is not supported
        Error and exit

    Extract raw bytes from secret file
    Extract image data from carrier image

    If the secret file is too big
        Error and exit

    Prepend fingerprint to secret file bytes
    Encrypt fingerprint/file bytes package

    Get big endian integer representation of ciphertext
    Prepend length of ciphertext to cipher text

    Stuff ciphertext package into LSB of carrier image


Function unsteno_iamge
    If the carrier image is not PNG or BMP
        Error and exit

    Extract the image data from carrier image
    Extract the secret packet from the LSB of the image data

    Grab the length from the first 4 bytes of the packet data
    Locate ciphertext using the length
    Decrypt the ciphertext
    If fingerprint is not found
        Error and exit

    Remove fingerprint from data
    Write the data to file
```