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

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