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The Algorithm
Step 1. Check hash of corrupted.docx
Step 2. Convert file into hex
Step 3. For each pair of set of headers and footers find all the occurences of them in the file
Step 4. For every combination of header and footer locations take a subset of the original file.
Step 5. Check to see if the hash of the new file is in the list of correct hashes. If it is append correct on the end of the name so it is easy to notice.
Step 6. Write the file.
Step 7. After all the files are written go back and check all the potential docx files manually since I dont have a hash for them.

Usage
To use this program modify the filepath variable to point to the location of the file on your system. Then run filecarving.py in python 2.7. Once its run check all of the files it generated and delete the files that wont open.