

### Word Scramble Algorithm

Summary: Program asks user for input of a .txt file, and scrambles the text, maintaining first and last letters of words, as well as punctuation and capitalization. Output is printed to the screen.

Algorithm:

- 1) Build a function that splits long strings of text into a list of words.
- 2) Build a function that scrambles text of individual words per the summary's indications.
- 3) Prompt user for filename (e.g. input.txt), open file and assign to variable. Error control for non-existent or incorrect filenames.
  - a. For each line of the text file, use the function built in step 1 to create lists of text.
    - i. For each list of text created, using the function built in step 2, scramble the text of each line.
      1. Function will operate on iterable list of strings, replacing each list object with the scrambled string.
      2. Function will keep punctuation and first/last letters intact.
      3. Print each string entry to screen.
  - b. Continue until all lines of the file have been read.
- 4) Close the file in use.