CS1064' ' Spring'2017'

In'this'homework,'you'will'be'writing'a'short'program'in'Python'to'find'duplicate'words'in'a'file.' This'assignment'focuses'on'Chapter'6,'specifically'reading'data'from'a'file.'

Program'Features'

A'common'mistake'when'composing'a'document'is'duplicating'a'word'("the'the").'This'is'a'big' enough'problem'that'Microsoft'Word'and'other'text'editing'software'will'mark'these'mistakes'as' errors.'In'this'assignment,'we'will'develop'a'short'Python'program'that'will'find'these'duplicate' words'and'alert'the'user'by'printing'out'a'simple'message.'I'suggest'using'a'for'loop'to'read'the'file' data'line'by'line.'Once'you'have'a'line'you'will'need'to'perform'further'string'manipulations'to' determine'if'theresa'a'duplicate'word.'

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Gven'the'following'(slightly'mangled)'text'stored'inside'of'quote.txt:'

He that would make his own liberty liberty secure,
must guard even his enemy from oppression;
for for if he violates this duty, he
he establishes a precedent that will reach to himself.

-- Thomas Paine

Running'your'program'would'produce'the'following'output'(user'input'is'green):'

Enter file name: quote.txt
Found word: "liberty" on line 1.
Found word: "for" on line 3.
Found word: "he" on line 4.
```

As'shown'above, 'your'program'should'also'be'able'to'find'duplicate'words'across'lines'in'the'input' file.'

Helpful'Hints'

We'haven dotten'to'lists'yet,'but'we'can'make'use'of'one'for'this'assignment'without'knowing'all' the'details.'Here an example of how'to'break'the words'in'a'line'into'separate'strings:'

Each'iteration'of'the'for'loop'will'print'out'a'word.'The'variable'word'becomes'"This",'then'"is"' and'so'on,'until'all'of'the'words'have'been'printed.'The'result'of'the'loop'is'shown'below:'

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This is a line from a file

What'to'Submit'

For'this'assignment'you'should'submit'your'hw6.py'file.'

This assignment will be graded automatically. Test your programs thoroughly before submitting them. "Make sure that your programs produce correct results for every logically valid test case you can think of." Do not waste submissions on untested code, or on code that does not run with the supplied code from the course website.

WeblCAT'will'assign'a'score'based'on'runtime'testing'of'your'submission;'your'best'score'will'be' counted;'the'TAs'will'later'verify'that'your'best'submission'meets'the'stated'restrictions,'and'assess' penalties'if'not.'

To'submit'this'assignment:'

- Visit'http://webldat.cs.vt.edu'in'your'web'browser.'
- 2. Enter'your'Virginia'Tech'PID'and'password'in'the'appropriate'fields'on'the'logÜn'screen,' and'make'sure'that'Virginia'Tech'is'selected'as'the'institution.'Qick'Login.'
- 3. The 'WeblcAT' home 'screen' will' display 'useful' announcements' and 'assignments' that 'are' currently 'accepting' submissions. 'Find' the 'assignment' that 'you' want 'to 'submit' in 'the 'table,' and 'click' the '"Submit" button 'next' to 'it.'
- 4. Click'the'Browse...'button'and'select'the'file'you'want'to'upload.'The'homework' assignments'and'programming'projects'for'this'course'should'be'self@ontained'in'a'single' .py'file,'so'you'can'simply'select'that'one'file.'
- 5. Qick'the'Upload'Submission'button.'The'next'page'will'ask'you'to'review'your'selection'to' ensure'that'you'have'chosen'the'right'file.'If'everything'looks'correct,'click'Confirm.'

The'next'page'will'show'that'your'assignment'is'currently'queued'for'grading,'with'an'estimated' wait'time.'This'page'will'refresh'itself'automatically,'and'when'grading'is'complete'you'will'be' taken'to'a'page'with'your'results.'

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Pledge'

Each'of'your'program'submissions'must'be'pledged'to'conform'to'the'Honor'Code'requirements'for' this'course."Specifically,'you'must'include'the'following'pledge'statement'in'the'submitted'file:'

```
<include a description of the purpose of this file/project/package>
  @author <name and surname> (your VT PID)
  @date <the date>
# Virginia Tech Honor Code Pledge
  On my honor:
  - I have not discussed the Python language code in my program with
    anyone other than my instructor or the teaching assistants
    assigned to this course.
  - I have not used Python language code obtained from another student,
   or any other unauthorized source, either modified or unmodified.
  - If any Python language code or documentation used in my program
   was obtained from another source, such as a text book or course
   notes, that has been clearly noted with a proper citation in
   the comments of my program.
 - I have not designed this program in such a way as to defeat or
   interfere with the normal operation of the Web-Cat Server.
  <your name>
```

Failure'to'include'this'pledge'in'a'submission'will'result'in'the'submission'being'disallowed' during'code'review.'