## CSC120H Fall 2018 Worksheet: Files

1.	We have a spreadsheet file that we've opened and assigned to <b>f</b> :	
	<pre>f = open('budgie_budget.csv')</pre>	
	Consider these code fragments:	
	<pre>(a) for line in f: print(line)</pre>	
	<pre>(b) line = f.readline()   for line in f:     print(line)</pre>	
	<pre>(c) for line in f:     print(line)     f.readline()</pre>	
	(d) print(f.readlines()[0])	
	Fill in the blank next to each description that it describes.	below with the code fragment from above, (a), (b), (c) or (d),
	(1) prints only the first line	
	(2) prints every line except the first	
	(3) prints all lines	
	(4) prints every second line	
2.	Consider this code:	
	<pre>budget_file = open('budgie_budget.txt', 'w') budget_file.write('Seed: \$10/month') budget_file.write('Cage: \$50') budget_file.close()</pre>	
	What will the contents of budgie_budget.txt look like after this code is run?	
	(a) 'Seed: \$10/month' 'Cage: \$50'	(b) Seed: \$10/month Cage: \$50
	(c) Seed: \$10/month Cage: \$50	(d) Seed: \$10/monthCage: \$50
	(e) Cage: \$50	(f) 'Seed: \$10/month''Cage: \$50'

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from typing import TextIO

3. Many Unix-like systems (like OSX and the Teaching Labs) have a file of correctly spelled words. On a Mac, the path to the file is /usr/share/dict/words. On Teaching Labs, the path to the file is /etc/dictionaries-common/words. See below some of those words (the file contains both capitalized and lowercase words); complete the function on the right:

```
Zworykin
              def is_correct(file: TextIO, word: str) -> bool:
Zyrtec
                  """Return True iff word is in file.
Zyrtec's
                  >>> dict_file = open('dictionary.txt')
                  >>> is_correct(dict_file, 'Zyrtec')
aardvark
aardvarks |
                  True
                  >>> dict_file.close()
abaci
                  >>> dict_file = open('dictionary.txt')
aback
                  >>> is_correct(dict_file, 'lolz')
                  False
                  >>> dict_file.close()
                  11 11 11
```

4. Complete the following function:

```
def write_ascii_triangle(outfile: TextIO, block: str, sidelength: int) -> None:
    """Write an ascii isosceles right triangle using block that is sidelength
    characters wide and high to outfile. The right angle should be in the
    upper-left corner.

Precondition: len(block) == 1

For example, given block="@" and sidelength=4, the
    following should be written to the file:

    @@@@
    @@@
    @@@
    @@@
    @@@
    @@@
    @@@
    @@@
    @@@
    @@@
    @@@
    @@@
    @@@
    @@@
    @@@
    #"""
```