CSCA08H Worksheet: Files

1. We have a spreadsheet file that we've opened and assigned to budget_file:

```
budget_file = open('budgie_budget.csv')
```

Consider each piece of code on the left and fill in the blank next to each description on the right with the code fragment ((a), (b), (c), (d), or none) that it describes.

- (a) for line in budget_file: print(line)
- (1) prints only the first line (d)
- (b) line = budget_file.readline() for line in budget_file: print(line)
- (2) prints every line except the first (b)
- (c) for line in budget_file: print(line)
- (3) prints every line twice <u>none</u> (4) prints all lines (a)
- budget_file.readline()
- (5) prints every second line _
- (d) print(budget_file.readlines()[0])
- 2. Consider this code:

```
budget_file = open('budgie_budget.txt', 'w')
budget_file.write('Seed: $10/month')
budget_file.write('Cage: $50')
budget_file.close()
```

What will the contents of budgie_budget.txt look like after this code is run?

(a) 'Seed: \$10/month' 'Cage: \$50'

(d) Seed: \$10/month Cage: \$50

(b) Seed: \$10/month Cage: \$50

(e) Seed: \$10/monthCage: \$50

(c) Cage: \$50

(f) 'Seed: \$10/month''Cage: \$50'

3. Many Unix-like systems (like OSX and the Teaching Labs) have a file of correctly spelled words. See below some of those words (the file contains both capitalised and lowercase words).

Zworykin Zyrtec Zyrtec's aardvark aardvarks abaci aback

Complete the function definition on the next page:

CSCA08H Worksheet: Files

4. Complete the definition of 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.
```

For example, given block="0" and sidelength=4, the following should be written to the file:

" " "