

-
- ¹The % operator, which finds the remainder of a division operation will be useful here.

3. Write a function that takes in a file name, and returns the average size of a word in that file. The files will only have 1 word per line, for example:

No
soup
for
you!

which has an average length of: 3.25

4. Perform a substitution trace on

```
1      reverse( 'Cinco-fone ' )
```

5. Write a function that takes in a string representation of a number and returns the sum of all of digits in the string.

For example `sum('11111')` returns 5

(a) Recursively.

(b) Iteratively

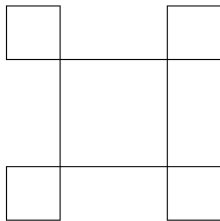
6. How would you test this function?

7. Assuming the turtle is facing east, write the python code to draw the following picture given the proper depth as input:

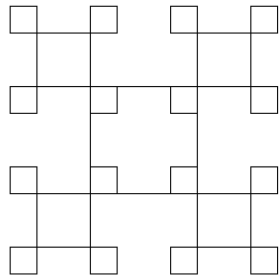
- depth = 0
No output
- depth = 1



- depth = 2



- depth = 3



8. What does the following evaluate to?

```

1 def writeThatDown( n ):
2     if n < 5:
3         return n
4     return (2 * n)
5
6 def he( n ):
7     temp = n + 180
8     if temp > 185:
9         return temp
10    return n
11
12 def putstheFernback( n ):
13    return -n
14
15 n = 20
16 n = he(putstheFernback(writeThatDown( n ) ) )
17 print( n )

```