

Name: _____

File Reading

1. Explain each line of the following program we wrote together in class yesterday:

```
work = open("work.txt")

name = raw_input("Enter a name to search for: ")
name = name.title()

for line in work:
    if(name in line):
        line = line.strip()
        info = line.split()

        total_hours = 0
        for i in range(2, len(info)):
            total_hours = total_hours + float(info[i])
        print(info[1] + ": " + str(total_hours) + " hours worked
this week.")
```

2. What is the type of the line variable in the example above?
3. What are the two different ways we have used the keyword 'in'?
4. Why is it necessary to make a call on the float function in the before to last line in the example above?

5. We will be working on a program to allow users to search for a first name then display an explanation of the name's meaning as well as a graph of the name's popularity over time. Use the space below to write pseudocode for this program. Be as detailed as you can -- this will be your implementation guide as you work over the next few days.