

# David H Smith IV

Files and Argy Continued

University of Illinois Urbana-Champaign

Thurs, Oct 14 2021

#### Reminders





#### Reminders

• Last homework of the quarter is due Thursday by the end of the day.



## Poll Question: Opening a File

How many times will this function call iterate if placed in a for loop: os.walk("dev\_website")?

- 1
- **B** 3
- **9** 10
- 9

## Poll Question: Opening a File

Imagine file.csv has three lines of text. What is the value of total\_len after the code has finished running?

```
1 fo = open("file.csv")
read1 = fo.readlines()
3 read2 = fo.readlines()
4 total_len = len(read1) + len(read2)
```

- Error

#### Poll Question: Opening a File

We are script myfile.py and we want to open mydata.csv.

```
home

| __tracertong
| ---mydata.csv
| ___dev_website
| ---index.html
| ___elements
| ___ myfile.py <-- You are here
```

- fo = open("../../mydata.csv")
- B fo = open("/../../mydata.csv")
- fo = open("/tracertong/mydata.csv")
- fo = open("../../mydata.csv")

#### Poll Question: Reading a File

Imagine file.csv has four lines of text. What is the value of read1 after the code has finished running?

```
1 fo = open("file.csv")
2 fo.close()
3 read1 = len(fo.readlines())
```

- 4
- Cannot determine from info given
- ValueError

## Poll Question: Reading a File

Imagine file.csv has one line that says "This is a file". What is the result of the code?

```
1 fo = open("file.csv")
2 read1 = fo.read(1)
3 read2 = fo.read(1)
4 print(read1, read2)
```

- This is
- T h
- T T
- This This
- Error

## Poll Question: Reading a File

Imagine file.csv has four lines of text. What is the value of total\_len after the code has finished running?

```
1 fo = open("file.csv")
2 read1 = fo.readlines()
3 read2 = fo.readlines()
4 total_len = len(read1) + len(read2)
```

- **A** 3
- **B** 6
- **9** 0
- Error

## Reading from Files

#### Method 1:

```
file_object = open('filename')
lines = file_object.readlines()
for line in lines:
    print(line)
file_object.close()
```

#### Method 2:

```
with open('filename') as inf:
lines = inf.readlines()
for line in lines:
print(line)
#automatic file close
```

#### Writing to Files

#### Method 1:

```
file_object = open('filename', 'w')
file_object.write('thing to write')
file_objet.close() #automatic at program end
file_object.flush() #optional
```

#### Method 2:

```
with open('filename', 'w') as outf:
outf.write('thing to write')
#automatic file close
```



#### Poll Question: Argv

What value is printed to the screen if the file, test.py, is run as such: python test.py 1 2 3?

```
import sys
print(len(sys.argv))
```

- A 3
- **B** 4
- **9** 5
- Error

#### Poll Question: Argv

What value is printed to the screen if the file, test.py, is run as such: python test.py 1 2 3?

```
import sys
print(sum(sys.argv[1:]))
```

- **A** 6
- **B** 1
- **9** 5
- TypeError

# Argument Vector (argv)

Example script time...

