



University of Illinois Urbana-Champaign

Tues, Oct 12 2021



Reminders



### Reminders

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

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

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

# Poll Question: Opening a File

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

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

- **A** 3
- **B** (
- **9** 0
- 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?

```
fo = open("file.csv")
fo.close()
read1 = fo.readlines()
```

- 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?

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

- This is
- B 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?

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

- **(A)**
- **B** (
- **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(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)**
- **B** 1
- 5
- TypeError

# Argument Vector (argv)

Example script time...