





University of Illinois Urbana-Champaign

Wed, June 23 2021

#### Announcements

- Quiz 1 is this Thursday:
  - https://ae3.engineering.illinois.edu/computer-based-testingfacility/information-for-students/exam-preparation/
  - https://ae3.engineering.illinois.edu/computer-based-testing-facility/information-for-students/exam-preparation/ https://ae3.engineering.illinois.edu/computer-based-testing-facility/information-for-students/exam-procedure/
  - Links are in chat, on the course website, and on the uploaded slides for future reference
  - Make sure you have Zoom installed on your phone, tablet, or additional computer and are able to login with SSO.

## Poll Question: String Len

```
my_str = "le chat"
my_str_length = len(my_str)
```

- 6
- **B** 8
- 0
- 5
- **A** 2
- **a** 4

### Poll Question: String Concatenation

- TypeError
- B "New""York"
- "New+York"
- "New York"
- "NewYork"

4/16

## Poll Question: String Concatenation

- "NewYork"
- "New York"
- "New+York"
- TypeError
- "New""York"

## Poll Question: Negative Indexing

What is the result of the following segment of code?

```
x = "ABCDE"
print(x[-3])
```

- SyntaxError
- IndexError
- ( , Y,
- B,
- (C)
- (D,

# Poll Question: Changing Strings

What is the value of str1 after the following segment of code executes?

```
str1 = "urbana"
str1[0] = "e"
```

- SyntaxError
- IndexError
- TypeError
- 'erbana'
- 'eurbana'



#### List Functions

What is the value of x after the following code executes:

```
x = "{1} {0} {1}".format("S", "O", "Y")
```

- "SOY"
- "0 S 0"
- "Y O Y"
- @ "OSO"

### Poll Question: Indexing with Lists





### Poll Question:

What does list1 contain after the code above executes?

```
list1 = [1, 2]
list1.append([3, 4])
```

- [1, 2]
- **1** [1, 2, 3, 4]
- [1, 2, [3, 4]]
- **(1)** [[1, 2], [3, 4]]

### Poll Question: Changing Lists

After the following code executes what gets outputted to the screen?

```
list1 = ["a", 5, "c", 234, ["hello", "world"]]
list[4] = "Hello, World!"
print(list1)
```

- ['a', 5, 'c', 234, "Hello, World!"]
- TypeError
- SyntaxError
- ['a', 5, 'c', 234, ["hello", "world", "Hello, World!"]]
- ['a', 5, 'c', 234, ["Hello, World!"]]



### Poll Question: Making Sets

Which of the follow are valid ways to construct a set?

- x = set(1, 2, 3)

- $\mathbf{a}$  x = {[1, 2, 3, 4]}

# Poll Question: Making Sets

Which of the follow are valid ways to construct a set?

- $\triangle$  x = set(1, 2, 3)
- $\mathbf{B}$  x = set([1, 2, 3])
- $\bigcirc$  x = [1, 2, 3, 4]
- $\mathbf{D}$  x = {1, 2, 3, 4}
- **a**  $x = \{[1, 2, 3, 4]\}$
- **1 set()**  $\rightarrow$  Creates either a new set by either accepting and converting another sequence type (e.g., list, tuple) or creates an empty list if it's not given anything.
- **2** set literal  $\rightarrow$ Written using the {}.



# Poll Question: Set Tracing

```
set1 = {""}
set2.add(2)
```



Announcements Strings String Formatting Lists Sets Dictionaries String Formatting

### Poll Question:





### Poll Question:





### List Functions



