Think Python:
Chapter 10

What is the term for the four strings inside square brackets below?

```
>>> title = ["Charlotte", "don't", "you", "cry"]
>>> title[1]
```

What is the term for the four strings inside square brackets below?

```
>>> title = ["Charlotte", "don't", "you", "cry"]
>>> title[1]
```

elements

Was the solution to your Quiz-5 programming problem an example of reduction, mapping, or filtering?

Was the solution to your Quiz-5 programming problem an example of reduction, mapping, or filtering?

Filtering, because it traversed the list of words, selecting those elements that met the specifications

What is output by the interactive Python session below?

```
>>> title = ["Charlotte", "don't", "you", "cry"]
>>> title[1]
```

What is output by the interactive Python session below?

```
>>> title = ["Charlotte", "don't", "you", "cry"]
>>> title[1]
```

"don't"

What is output by the interactive Python session below?

```
>>> title = ["Charlotte", "don't", "you", "cry"]
>>> title[:2]
```

What is output by the interactive Python session below?

```
>>> title = ["Charlotte", "don't", "you", "cry"]
>>> title[:2]
```

```
['Charlotte', "don't"]
```

What is output by the interactive Python session below?

```
>>> title = ["Charlotte", "don't", "you", "cry"]
>>> title[2:]
```

What is output by the interactive Python session below?

```
>>> title = ["Charlotte", "don't", "you", "cry"]
>>> title[2:]
```

```
['you', 'cry']
```

What is output by the interactive Python session below?

```
>>> title = ["Charlotte", "don't", "you", "cry"]
>>> title.pop()
```

What is output by the interactive Python session below?

```
>>> title = ["Charlotte", "don't", "you", "cry"]
>>> title.pop()
```

'cry'

What is output by the last line below?

```
>>> title = ["Charlotte", "don't", "you", "cry"]
>>> title.pop()
>>> title
```

What is output by the last line below?

```
>>> title = ["Charlotte", "don't", "you", "cry"]
>>> title.pop()
>>> title
```

['Charlotte', "don't", 'you']

What is output by the interactive Python session below?

```
>>> line_1 = ["Hush", "Hush", "Sweet", "Charlotte"]
>>> line_2 = ["Charlotte", "don't", "you", "cry"]
>>> line_3 = ["Hush", "Hush", "Sweet", "Charlotte"]
>>> line_4 = ["I'll", "love", "you", "'til", "I", "die"]
>>> chorus = [line_1, line_2, line_3, line_4]
>>> chorus[3]
```

What is output by the interactive Python session below?

```
>>> line_1 = ["Hush", "Hush", "Sweet", "Charlotte"]
>>> line_2 = ["Charlotte", "don't", "you", "cry"]
>>> line_3 = ["Hush", "Hush", "Sweet", "Charlotte"]
>>> line_4 = ["I'll", "love", "you", "'til", "I", "die"]
>>> chorus = [line_1, line_2, line_3, line_4]
>>> chorus[3]
```

["I'll", 'love', 'you', "'til", 'I', 'die']

What is output by the interactive Python session below?

```
>>> line_1 = ["Hush", "Hush", "Sweet", "Charlotte"]
>>> line_2 = ["Charlotte", "don't", "you", "cry"]
>>> line_3 = ["Hush", "Hush", "Sweet", "Charlotte"]
>>> line_4 = ["I'll", "love", "you", "'til", "I", "die"]
>>> line_1 is line_3
```

What is output by the interactive Python session below?

```
>>> line_1 = ["Hush", "Hush", "Sweet", "Charlotte"]
>>> line_2 = ["Charlotte", "don't", "you", "cry"]
>>> line_3 = ["Hush", "Hush", "Sweet", "Charlotte"]
>>> line_4 = ["I'll", "love", "you", "'til", "I", "die"]
>>> line_1 is line_3
```

False

What is output by the interactive Python session below?

```
>>> line_1 = ["Hush", "Hush", "Sweet", "Charlotte"]
>>> line_2 = ["Charlotte", "don't", "you", "cry"]
>>> line_1 = line_3
>>> line_4 = ["I'll", "love", "you", "'til", "I", "die"]
>>> line_1 is line_3
```

What is output by the interactive Python session below?

```python
>>> line_1 = ["Hush", "Hush", "Sweet", "Charlotte"]
>>> line_2 = ["Charlotte", "don't", "you", "cry"]
>>> line_1 = line_3
>>> line_4 = ["I'll", "love", "you", "'til", "I", "die"]
>>> line_1 is line_3
```

True

What is output by the interactive Python session below?

```
>>> line_1 = ["Hush", "Hush", "Sweet", "Charlotte"]
>>> line_2 = ["Charlotte", "don't", "you", "cry"]
>>> line_3 = ["Hush", "Hush", "Sweet", "Charlotte"]
>>> line_4 = ["I'll", "love", "you", "'til", "I", "die"]
>>> line_1 + line_2 + line_3 + line_4
```

What is output by the interactive Python session below?

```
>>> line_1 = ["Hush", "Hush", "Sweet", "Charlotte"]
>>> line_2 = ["Charlotte", "don't", "you", "cry"]
>>> line_3 = ["Hush", "Hush", "Sweet", "Charlotte"]
>>> line_4 = ["I'll", "love", "you", "'til", "I", "die"]
>>> line_1 + line_2 + line_3 + line_4
```

```
['Hush', 'Hush', 'Sweet', 'Charlotte', 'Charlotte',
"don't", 'you', 'cry', 'Hush', 'Hush', 'Sweet',
'Charlotte', "I'll", 'love', 'you', "'til", 'I',
'die']
```

What is output by the interactive Python session below?

```
>>> vowels = ['a','e','i','o','u','A','E','I','O','U']
>>> vowels.sort()
>>> vowels
```

What is output by the interactive Python session below?

```
>>> vowels = ['a','e','i','o','u','A','E','I','O','U']
>>> vowels.sort()
>>> vowels
```

```
['A', 'E', 'I', 'O', 'U', 'a', 'e', 'i', 'o', 'u']
```

line_1, line_2, line_3, and line_4 are examples of _____ lists below.

```
>>> line_1 = ["Hush", "Hush", "Sweet", "Charlotte"]
>>> line_2 = ["Charlotte", "don't", "you", "cry"]
>>> line_3 = ["Hush", "Hush", "Sweet", "Charlotte"]
>>> line_4 = ["I'll", "love", "you", "'til", "I", "die"]
>>> chorus = [line_1, line_2, line_3, line_4]
>>> chorus[3]
```

line_1, line_2, line_3, and line_4 are examples of _____ lists below.

```
>>> line_1 = ["Hush", "Hush", "Sweet", "Charlotte"]
>>> line_2 = ["Charlotte", "don't", "you", "cry"]
>>> line_3 = ["Hush", "Hush", "Sweet", "Charlotte"]
>>> line_4 = ["I'll", "love", "you", "'til", "I", "die"]
>>> chorus = [line_1, line_2, line_3, line_4]
>>> chorus[3]
```

nested

What is output by the interactive Python session below?

```
>>> title = ["Charlotte", "don't", "you", "cry"]
>>> del title[2]
```

What is output by the interactive Python session below?

```
>>> title = ["Charlotte", "don't", "you", "cry"]
>>> del title[2]
```

Nothing! The **del** function doesn't return anything.

What is output by the interactive Python session below?

```
>>> title = ["Charlotte", "don't", "you", "cry"]
>>> del title[2]
>>> title
```

What is output by the interactive Python session below?

```
>>> title = ["Charlotte", "don't", "you", "cry"]
>>> del title[2]
>>> title
```

['Charlotte', "don't", 'cry']

What is output by the interactive Python session below?

```
>>> title = ["Charlotte", "don't", "you", "cry"]
>>> " ".join(title)
```

What is output by the interactive Python session below?

```
>>> title = ["Charlotte", "don't", "you", "cry"]
>>> " ".join(title)
```

"Charlotte don't you cry"

True or False? Unlike strings, lists are mutable.

True or False? Unlike strings, lists are
mutable.

TRUE!

What's the term for the below?

[]

What's the term for the below?

[]

Empty list

How many times does this loop iterate?

```
>>> for number in []:
```

How many times does this loop iterate?

```
>>> for number in []:
```