Due Oct 30 at 1pm

Points 5

**Questions** 5

Available until Dec 4 at 11:59pm

Time Limit None

Allowed Attempts Unlimited

## Instructions

Prior to completing this quiz, be sure to read:

• Section 6.2: Sets (p. 177-181)

Please also go over Practice Problem 6.6 in the textbook (solutions at the end of the chapter) before attempting this quiz.

This quiz was created for learning purposes. You may attempt this quiz as many times as you would like. The highest score *prior to the deadline* will count towards the final course grade. No late submissions will be accepted.

Take the Quiz Again

## **Attempt History**

Correct!

	Attempt	Time	Score
LATEST	Attempt 1	9 minutes	4 out of 5

Score for this attempt: **4** out of 5 Submitted Nov 1 at 1:03pm This attempt took 9 minutes.

Question 1	1 / 1 pts
Another built-in Python container type is the <b>set</b> . Sets are used to store an unordered colle items.	ection of
To create a set, use curly-brackets (and not semi-colons):	
myset = {1,2,3,4}	
Fill in the blanks with one special character per blank so that thisset is a set.	
thisset = {   'apple', 'orange', 'banana', 'pear' }	
Answer 1:	
{	
Answer 2:	

## 

## Question 3 0 / 1 pts

In sets, we cannot have duplicates. If we accidentally create a set with duplicates, the duplicate(s) will be ignored (and you'll only have one copy).

```
myset = {'red', 'black', 'blue', 'white', 'purple', 'green', 'black', 'yellow'}
print(myset) ## 'black' only appears once even though we had two of them
```

How many items are in the following set (theset)? (Hint, you can use len(theset) to help you determine the answer)

```
theset = {23, 24, 25, 27, 23, 26, 24, 24, 27, 21, 28, 29, 30, 30}
```

You Answered

7

**Correct Answers** 

9 (with margin: 0)

1 / 1 pts **Question 4** Table 6.3 on page 180 of the textbook contains a list of operators for sets. set1 = seta & setb ## intersection set2 = seta | setb ## union set3 = seta - setb ## what seta has, but setb doesn't set4 = seta ^ setb ## what is only in one set and not the other Consider the following sets friends and lions. friends = {'Simba', 'Pumbaa', 'Timone'}
lions = {'Mufasa', 'Simba', 'Nala'} Match the code with the resulting set. (Note, set order doesn't matter because sets do not have order!) Correct! friends & lions {'Simba'} Correct! friends | lions {'Simba', 'Timone', 'Mufasa', 'I 🗸 Correct! friends - lions {'Timone', 'Pumbaa'} Correct! lions - friends {'Mufasa', 'Nala'} Correct! friends ^ lions {'Timone', 'Pumbaa', 'Mufasa'

Other Incorrect Match Options:

- {'Simba', 'Pumbaa', 'Timone'}
- {'Mufasa', 'Simba', 'Nala'}

Question 5 1 / 1 pts

Some commonly used methods for sets include add(), remove() and clear(). clear() removes everything from the set.

Consider the following code:

```
lions = {'Mufasa', 'Simba', 'Nala'}
lions.remove('Mufasa')
lions.add('Scar')
lions.add('Simba')
lions.remove('Simba')
```

What is stored in lions at the end of the code above?

	○ {'Mufasa', 'Simba', 'Nala'}
	○ {'Mufasa', 'Scar', 'Nala'}
	○ {'Scar', 'Simba', 'Nala'}
Correct!	
	○ {'Scar', 'Simba', 'Nala', 'Simba'}

Quiz Score: 4 out of 5