



## CC 1.2.6: Sets

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In these Comprehension Checks, we will review a range of Python topics, and do not expect you to know the answer without any aids. As you answer these questions, feel free to use Python and the internet interactively to get the right answer!

### Sets: Question 1

1/1 point (graded)

Let sets `x={1,2,3}` and `y={2,3,4}`. How could you get `{4}` from `x` and `y` using basic set operations?

Enter your code here.

`y - x`

✓ Answer: {4}

#### Explanation

Simply `y-x` will do the trick. `y.difference(x)` works as well!

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You have used 1 of 5 attempts

**i** Answers are displayed within the problem

### Sets: Question 2

1/1 point (graded)

Consider again sets `x={1,2,3}` and `y={2,3,4}`. How could you get `{2, 3}` from `x` and `y` using basic set operations?

Enter your code here.

`x & y`

✓ Answer: {2, 3}

#### Explanation

Simply `x & y` will work. Alternatively, try `x.intersection(y)` works as well!

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## Sets: Question 3

1/1 point (graded)

Consider again sets `x={1,2,3}` and `y={2,3,4}`. How could you get `{1, 4}` from `x` and `y` using the provided set methods?

Enter your code here.

`(x | y) - (x & y)`

✓ Answer: `{1, 4}`

### Explanation

`x.symmetric_difference(y)` performs this task.

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## Sets: Question 4

1/1 point (graded)

Consider again sets `x={1,2,3}` and `y={2,3,4}`. Which of the following lines of code will determine if all elements of `x` are in `y`?

☒ `x.issubset(y)`

☐ `x.isin(y)`

☐ `x.is_in(y)`

☐ `x in y`



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**i** Answers are displayed within the problem

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