

<u>Course</u> > <u>Week 3</u>... > <u>3.18 Pr</u>... > Progra...

Programming Assignment

Click the link below to download a zip drive of all the necessary material for the homework. Unzip the folder and then run Jupyter to work on files. First go through 3_counting.ipynb, then complete sets_HW.ipynb.

- Verified Learners: upload sets_HW.ipynb for grading
- Auditing Learners: complete the assessment questions below

Download Notebooks

union

1 point possible (graded) Define A and Bas follows:

$$A = \{-2, 0, 5, \text{bob}\}$$

$$B = \{-2, 0, 5, 10, \text{jill}\}$$

Which of the following is the correct output for union(A,B)

$$\{-2, -2, 0, 0, 5, 5, 10, bob, jill\}, 6$$

$$\circ$$
 {-2,0,5,10, bob, jill}, 6

You have used 0 of 2 attempts

1 Answers are displayed within the problem

inclusion_exclusion

1 point possible (graded) Again, let ${\cal A}$ and ${\cal B}$ be:

$$A = \{-2, 0, 5, \text{bob}\}$$

$$B = \{-2, 0, 5, 10, \text{jill}\}$$

Which of the following is the correct output for <code>inclusion_exclusion(A,B)</code>

- (5,5,2,6)
- (4,5,3,6)
- \circ (5,4,3,6)

Submit

You have used 0 of 2 attempts

1 Answers are displayed within the problem

union3

1 point possible (graded) Define A , B , and C to be:

$$A = \{-2, 0, 5, \text{bob}\}$$

$$B = \{-2, 0, 5, 10, \text{jill}\}$$

$$C = \{-2, 0, 3, 5, 10\}$$

Which of the following is the correct output for union3(A,B)

- $\{-2,0,3,5,10, bob, jill\}, 7 \checkmark$
- \circ $\{-2,0,3,5,10\}, 5$
- $\{-2,0,5,10, bob, jill\}, 6$

Submit

You have used 0 of 2 attempts

1 Answers are displayed within the problem

inclusion_exclusion3

1 point possible (graded) Define A, B, and C to be:

$$A = \{-2, 0, 5, \text{bob}\}$$

$$B = \{-2, 0, 5, 10, \text{jill}\}$$

$$C = \{-2, 0, 3, 5, 10\}$$

Which of the following is the correct output for <code>inclusion_exclusion(A,B)</code>

- \circ 3, 5
- **3**, 6
- 3, 7



You have used 0 of 2 attempts

1 Answers are displayed within the problem

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