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## hw2\_csps\_q6\_arc\_consistency

Question 6: Arc Consistency

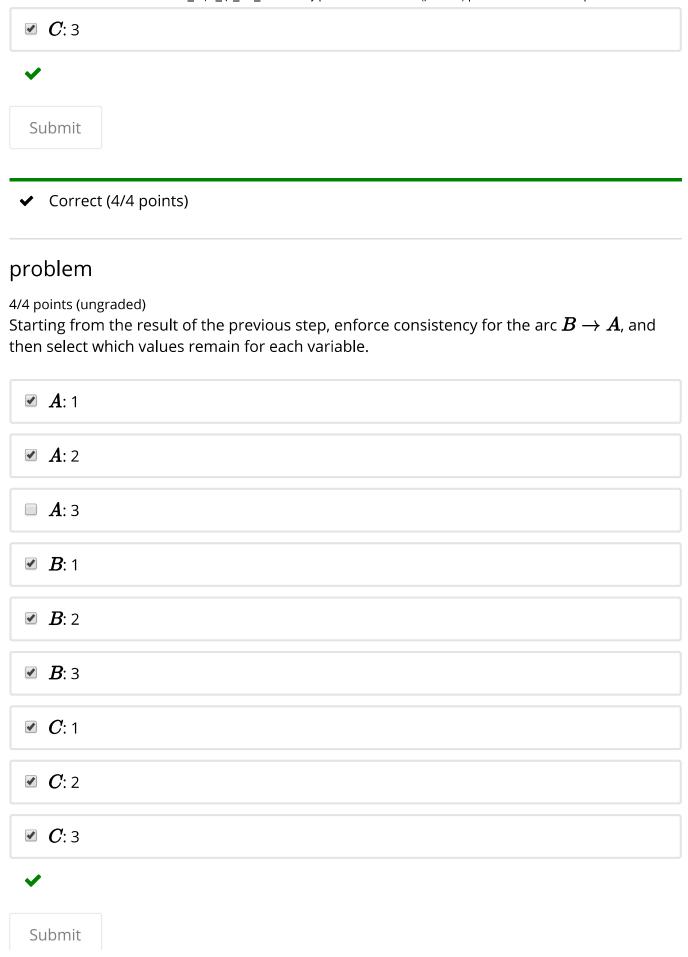
4/4 points (ungraded)

Consider the problem of arranging the schedule for an event. There are three time slots: 1, 2, and 3. There are three presenters: A, B, and C. The variables for the CSP will then be A, B, and C, each with domain {1, 2, 3}. The following constraints need to be satisfied:

- 1. A, B, and C all need to take on different values
- 2. A < C

Enforce consistency for the arc  $A \to C$ , and then select which values remain for each variable.

<b>№ A</b> : 1	
<b>₽ A</b> : 2	
□ <b>A</b> : 3	
<b>№ B</b> : 1	
<b>⊮ B</b> : 2	
<b>№ B</b> : 3	
<b>♂ C</b> : 1	
<b>№ C</b> : 2	



	<b>~</b>	Correct (	4/4	points)
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Correct (4/4 points)

## problem

4/4 points (ungraded)

Starting from the result of the previous step, enforce consistency for the arc  $C \to A$ , and then select which values remain for each variable.

✓ A: 1
<b>№ A</b> : 2
■ <b>A</b> : 3
<b>№ B</b> : 1
<b>№ B</b> : 2
<b>№ B</b> : 3
<b>□ C</b> : 1
<b>☑ C</b> : 2
<b>☑ C</b> : 3
<b>✓</b>
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