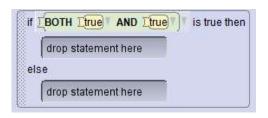
CompSci 94 Logic with Ifs, Nested Ifs October 3, 2024



Prof. Susan Rodger

CompSci 94 Fall 2024

Q1. Review Nested IF

• What happens if the diningTable has width 1.7 and depth 1.0?



Announcements

- Assignment 3 due Tues. Oct 8
 - Also fill out reflect form!
- Next QZ and Videos due Tuesday when class starts
 - They are up!

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Q1. Review Nested IF

- What happens if the diningTable has width 1.7 and depth 1.0?
 - dining Table says hello and is resized larger by 1.2



Q2. Logic Review

- What are possible values of A and B
 - if **A** and **B** is True?
 - if **A or B** is True?
 - if **A** or **B** is False?

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Logic Truth Table

A	В	not A	A and B	A or B
True	True	False	True	True
True	False	False	False	True
False	True	True	False	True
False	False	True	False	False

Q2. Logic Review

- What are possible values of A and B
 - if **A** and **B** is True?
 - A must be True, B must be True
 - if **A or B** is True?
 - A must be True or B must be True
 - if **A or B** is False?
 - A must be False, B must be false

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Logic Truth Table

A AND B is true only if both A and B are true

A	В	not A	A and B	A or B
True	True	False	True	True
True	False	False	False	True
False	True	True	False	True
False	False	True	False	False

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Logic Truth Table

A OR B is **false** only if both A and B are **false**

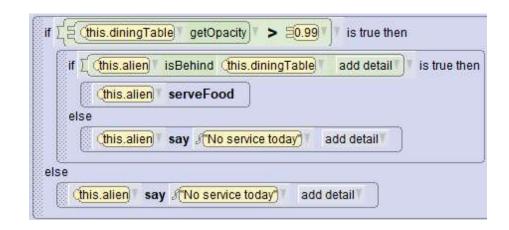
	\mathbf{A}	В	not A	A and B	A or B
	True	True	False	True	True
	True	False	False	False	True
	False	True	True	False	True
Ī	False	False	True	False	False

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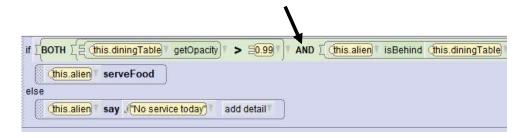
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Q3. Consider this code – Nested Ifs How would you write it with ONE IF?

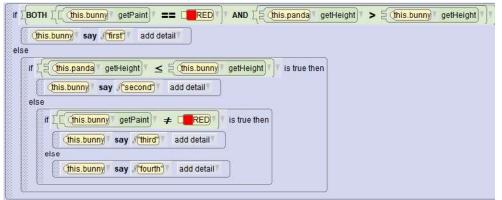


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Rewrite Code - one IF with AND



Q4. What does bunny say?



Bunny is red to start.



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Q4. What does bunny say?



Bunny is red to start.



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Bunny says: second

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Q5. Bunny different. What does bunny say?



Bunny is green to start.



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Q5. Bunny different. What does bunny say?

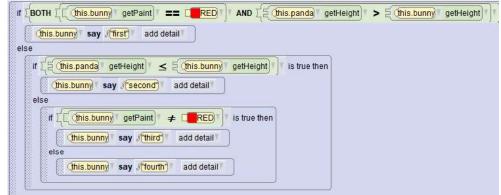


Bunny is green to start.



Bunny says: third

Q6. Give an example to make bunny say fourth



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Q6. Give an example to make bunny say fourth



Bunny is painted red AND Panda is shorter than bunny

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Class Today

• Nested Ifs, Logic – and/or/not





Give an example to make bunny say fourth





ever say fourth!

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