Prep 10 quiz: Expression Trees

Due Nov 20 at 10am

Points 5

Questions 3

Available Nov 15 at 9pm - Dec 31 at 10am about 2 months

Time Limit None

Allowed Attempts Unlimited

Take the Quiz Again

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	9 minutes	1.67 out of 5

(!) Correct answers are hidden.

Score for this attempt: 1.67 out of 5

Submitted Nov 18 at 11:57pm

This attempt took 9 minutes.

Partial	Question 1	0.67 / 1 pts

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In this week's prep readings, we introduced three classes: Expr, Num, and BinOp.	
Select all of the true statements about the relationship between these classes.	
☑ Num is a subclass of Expr.	
☑ BinOp has one or more attributes that refer to other Expr instances.	
☑ BinOp is a subclass of Expr.	
□ Num is a subclass of BinOp.	
✓ Num has one or more attributes that refer to other Expr instances.	

Question 2	1 / 1 pts
Match each expression class	s with its description.
Expr	An abstract class representing
Num	A class representing a numer
BinOp	A class representing a binary

Incorrect Question 3 0 / 3 pts

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For each of the Python expressions below, show how to represent that expression as an Expr instance (using some combination of Nums and BinOps).

We have done the first one for you.

NOTE: The grading is picky about formatting here. Make sure you follow these rules when entering your expressions:

- Use proper spelling, including capitalization
- · Check your parentheses carefully.
- Use single-quotes for your strings, e.g., use '-' instead of "-".
- Include a single space after every comma. Do not include any other spaces.

You may find it easier to type your answers into PyCharm first, then copyand-pasted them into the quiz.

Python expression	Expr instance
3	Num(3)
3 + 4	BinOps(Num(3), '+',
(3 + 4) * 6	BinOps(BinOps(Nur
1.1 + (2.2 + (3.3 + 4.4))	Binops(Num(1.1), '+

Answer 1:

BinOps(Num(3), '+', Num(4))

Answer 2:

BinOps(BinOps(Num(3), '+', Num(4)), '*', Num(6))

Answer 3:

Binops(Num(1.1), '+', BinOps(Num(2.2), '+', Binops(Num(3.3), '+', Num(4.4))))

Quiz Score: 1.67 out of 5

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