Quiz 8

Due No due date   **Points** 5   **Questions** 5

Available May 15, 2020 at 10:15am - May 15, 2020 at 10:30am 15 minutes

Time Limit 8 Minutes

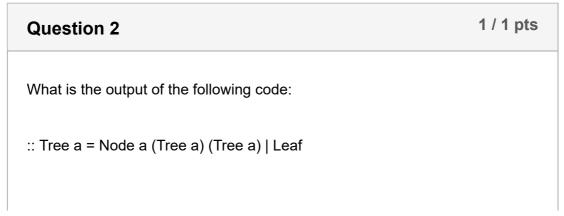This quiz is no longer available as the course has been concluded.

Attempt History

	Attempt	Time	Score
LATEST	**Attempt 1**	6 minutes	3 out of 5

Score for this quiz: **3** out of 5

Submitted May 15, 2020 at 10:25am

This attempt took 6 minutes.

Question 1   0 / 1 pts

What is a binary tree?

- ○ Hungarian breed of an apple tree.

You Answered ⯈   ● A tree structure, with a node and list of multiple children nodes.

- ○ A tree with binary values stored in a node, used for data compression.

Correct Answer ⯈   ○ A tree with two children node.

Question 2   1 / 1 pts

What is the output of the following code:

:: Tree a = Node a (Tree a) (Tree a) | Leaf

func:: (Tree Int) -> [Int]
func Leaf = []
func (Node x tl tr) = (func tl) ++ (func tr)

Start = func (Node 3 (Node 2 (Node 1 Leaf (Node 4 Leaf Leaf)) (Node 5 Leaf Leaf)) Leaf)

○ {4,1,5,2,3}

Correct! ◉ [ ]

○ [4,1,5,2,3]

○ Error

Question 3   1 / 1 pts

How many child node can a tree have in Clean?

○ 2

Correct! ◉ Any number

○ 1-420

○ 1

Question 4   1 / 1 pts

Which one is an algebraic data type?

○ All of them

○ :: Numbers := A | B | C

Correct! ◉ :: Numbers = A | B | C

○ Numbers = {A, B, C}

Question 5   0 / 1 pts

What is the output of the following code:

:: Tree a = Node a (Tree a) (Tree a) | Leaf

func:: (Tree Int) -> Int
func Leaf = 0
func (Node x _ Leaf) = x
func (Node x tl tr) = func tl

Start = func (Node 3 (Node 2 (Node 1 Leaf (Node 4 Leaf Leaf)) (Node 5 Leaf Leaf)) Leaf)

orrect Answer   ○ 3

○ 4

ou Answered   ◉ Error

○ 1

Quiz Score: **3** out of 5