

 $\underline{Course} \; \succ \; \underline{7a: Two \; One-Of \, Types} \; \succ \; \underline{Cross \, Product \, Code} \; \succ \; Questions \; 1-6$

Questions 1-6

Question 1

1/1 point (graded)

Using the check-expects we designed in the last section, let's fill in the cells of the table

р	bt	false	(make-node Nat Str BT BT)
empty		(1)	(4)
	L" Path)		(5)
	 R" Path)	(3)	(6)

What should the result of case (1) be?
O true
O false
(has-path? <left child=""> (rest path))</left>
(has-path? <right child=""> (rest path))</right>
• The second of the second
explanation Recall the function should produce false if the path leads to a false BT.
Submit

Question 2

1/1 point (graded)

What should the result of case (2) be?

 $\begin{tabular}{ll} \begin{tabular}{ll} \beg$

true

false

(has-path? <left child> (rest path))

(has-path? <right child> (rest path))



Explanation

Recall the function should produce false if the path leads to a false BT. This is the

Submit

 ${\bf 6} \quad \hbox{Answers are displayed within the problem}$

Question 3

1/1 point (graded)

What should the result of case (3) be?
O true
• false
<pre>(has-path? <left child=""> (rest path))</left></pre>
<pre>(has-path? <right child=""> (rest path))</right></pre>
✓
Explanation Recall the function should produce false if the path leads to a false BT.
Submit
Answers are displayed within the problem
Question 4
1/1 point (graded) What should the result of case (4) be?
• true
O false
<pre>(has-path? <left child=""> (rest path))</left></pre>
<pre>(has-path? <right child=""> (rest path))</right></pre>
✓
Explanation If the path is empty and the tree is not false, then the function produces true because the path leads to a node. Submit
Answers are displayed within the problem
Question 5
1/1 point (graded) What should the result of case (5) be?
○ true
O false
(has-path? <left child=""> (rest path))</left>
(has-path? <right child=""> (rest path))</right>
✓
Explanation If the tree is not false, and the path starts with "L", then we need to recursively call the function on the left sub-tree.
Submit
Answers are displayed within the problem

Question 6

1/1 point (graded)

O true				
○ false				
(has-path? <	cleft child> (rest path))			
O (has-path? <	right child> (rest path))			
✓				
xplanation the tree is not fals	se, and the path starts with "R", then we	e need to recursively call the function	n on the right sub-tree.	
Submit				

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