quiz1

Due May 22, 2020 at 10:01am **Points** 20 **Questions** 20 **Available** May 22, 2020 at 10:01am - May 22, 2020 at 10:30am 29 minutes **Time Limit** 22 Minutes

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

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	6 minutes	16 out of 20

(!) Correct answers are hidden.

Score for this quiz: **16** out of 20 Submitted May 22, 2020 at 10:21am

This attempt took 6 minutes.

Question 1	1 / 1 pts
The type of [] is of	
○ list of sublists	
type undefined	
a list of any types	
○ Int	

Question 2	1 / 1 pts
[1,2,3,4,5 :[3]] is equivalent to	
O [1,2,3,4,5,5,5]	

[1,2,3,4,5]		
[[1,2,3,4,5],[3,4,5]]		
[1,2,3,4,5,3]		

Question 3	1 / 1 pts
h x y _ = y	
Start = h 10 20 30	
is equal to	
20	
O 10	
O 30	
O 60	

Incorrect	Question 4	0 / 1 pts
	zip [12] [1518]	
	([1,15],[2,16])	
	○ [(1,15),(2,16)]	
	[1,15,2,16]	
	○ [(15,1),(16,2)]	

Question 5	1 / 1 pts

repeat 10	
O [1019]	
O [1120]	
[10,10,10,]	
[10,10,10,10,10,10,10,10,10]	

Question 6	1 / 1 pts
:: Tree a = Node a (Tree a) (Tree a) Leaf	
f:: (Tree a) -> Int	
<pre>f Leaf = 1 f (Node x le ri) = 1 + f le + f ri</pre>	
ocounts subtrees only	
Counts subtrees only	
ocunts leaves only	
counts nodes and leaves	
 counts nodes only 	

Question 7	1 / 1 pts
iterate inc 5	
○ [6,7,8,]	
○ [5,5,5,5,5]	
[5,6,7,8,]	
C [5,6,7,8,9]	



Incorrect Question 9 0 / 1 pts

mapbtree :: (a -> b) (BTree a) -> BTree b
mapbtree f (Tip x) = Tip (f x)
mapbtree f (Bin t1 t2) = Bin (mapbtree f t1) (mapbtree f t2)
mapbtree applies a function to

every node and leaves
every right subtree
every leaf
every node

Incorrect Question 10 0 / 1 pts

Which one is false for records?

the elements are numbered by index
fields in a record are indicated by their name
fields can have different types
it has fixed number of fields

Question 11	1 / 1 pts
What is an algebraic type?	
giving a new name to an existing type	
a basic type	
a type that defines the way elements can be constructed	
a type of which the actual definitions is hidden	

Question 12	1 / 1 pts
Trees can't have	
none of the answers are correct	
information in leaves	
 same types for nodes 	
O different types between nodes and leaves	

Question 13 0 / 1 pts

x rem 2 == 0 is of type	
O Bool	
[Bool]	
O Int	
Real	

Question 14	1 / 1 pts
take 10 [1] is of length	
O 0	
infinite	
10	
onot defined	

Question 15	1 / 1 pts
The ++ operator	
adds elements	
adds 1	
 creates sublists 	
concatenates lists	

Question 16	1 / 1 pts
prod [15] is	
O 5	
O 15	
O 10	
120	

Question 17	1 / 1 pts
fib n = fib (n - 1) + fib (n - 2) is wrong because	
infinite recursion	
n not defined	
is equal to 0	
orepeats fib calls	

Question 18	1 / 1 pts
[] ++ [15] is	
○ [1,5]	
[1,2,3,4,5]	
O [1]	

Question 19	1 / 1 pts
foldr (+) 1 [13] is	
O 0	
O 1	
O 6	
7	

1 / 1 pts

Quiz Score: 16 out of 20