Quiz 4

Due No due date   **Points** 5   **Questions** 5
Available Mar 27, 2020 at 10:15am - Mar 27, 2020 at 10:30am 15 minutes
Time Limit 8 Minutes

Instructions

Please do your best. Thanks!

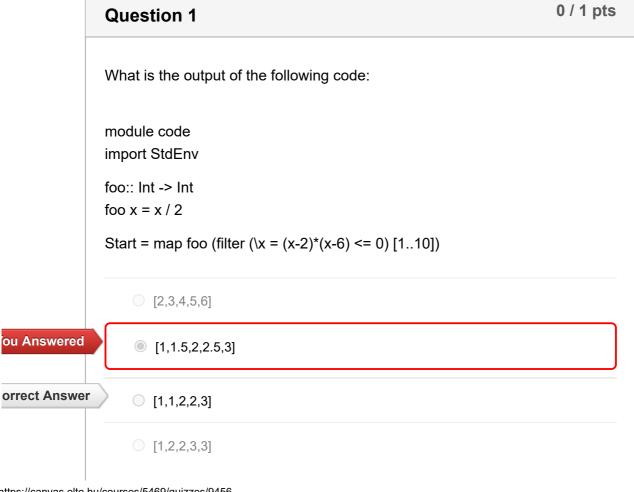> This quiz is no longer available as the course has been concluded.

Attempt History

	Attempt	Time	Score
LATEST	**Attempt 1**	8 minutes	1 out of 5

Score for this quiz: **1** out of 5
Submitted Mar 27, 2020 at 10:25am
This attempt took 8 minutes.

Question 1	0 / 1 pts

What is the output of the following code:

```
module code
import StdEnv

foo:: Int -> Int
foo x = x / 2

Start = map foo (filter (\x = (x-2)*(x-6) <= 0) [1..10])
```

○ [2,3,4,5,6]

You Answered ⦿ **[1,1.5,2,2.5,3]**

Correct Answer ○ [1,1,2,2,3]

○ [1,2,2,3,3]

> *filter evaluates to [2,3,4,5,6] and maping leaves us with [1,1,2,2,3].*
> *Note: integer division returns only a whole part. Ex: 5/2=2, 1/2=0,*
> *8/3=2.*

Question 2   0 / 1 pts

Which of the folowing is the valid declaration for a function wich takes another function as an argument?

○ foo:: /(Int->Int) Int -> Int

ou Answered
⦿ foo:: (Int Int) Int -> Int

orrect Answer
○ foo:: (Int->Int) Int -> Int

○ foo:: ::(Int->Int) Int -> Int

> *type signatures for higher order functions will contain the type*
> *signature for the subfunctions in parenthesis.*

Question 3   0 / 1 pts

Which one is the valid expression in Clean?

ou Answered
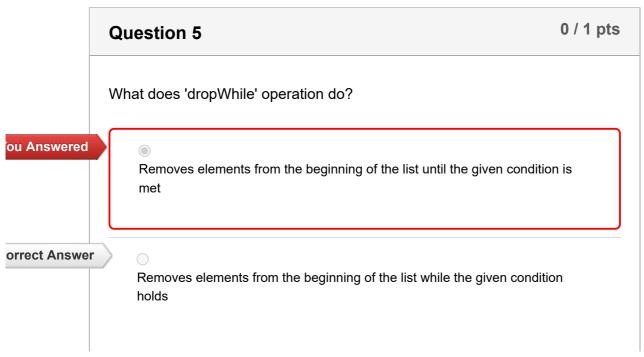⦿ Start = takeUntill isOdd [1..10]

○ Start = foldr (+) [1..10]

orrect Answer
○ None of them are correct

○ Start = map (/x = x*x) [1..10]

Correct syntax for foldr is `foldr (op) x ls`, for lambda functions
- `\x=x*x` and correct name is `takeWhile`

Question 4

1 / 1 pts

What is the output of the following code:

module quiz
import StdEnv

foo:: Int -> Int
foo n = foldl (\a b = a - b) 0 [1..n]

Start = map foo [1..5]

You Answered

- ⦿ [-1,-3,-6,-10,-15]

- ○ [-1,1,4,8,13]

Correct Answer

- ○ Compile error

- ○ [1,-1,2,-2,3]

Question 5

0 / 1 pts

What does 'dropWhile' operation do?

You Answered

- ⦿ Removes elements from the beginning of the list until the given condition is met

Correct Answer

- ○ Removes elements from the beginning of the list while the given condition holds

○ Removes all elements from the list for which the given condition holds

○ Removes the given amount of elements from the beginning of the list

Quiz Score: **1** out of 5