

Quiz 6

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

Available Apr 17, 2020 at 10:15am - Apr 17, 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	8 minutes	3 out of 5

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

Submitted Apr 17, 2020 at 10:23am

This attempt took 8 minutes.

Question 1

0 / 1 pts

Which are the tuples:

- I. (1)
- II. (1, 2, 3)
- III. (2,('z',True))
- IV. {1,'a','b'}

You Answered

☒ III and IV

Correct Answer

☐ II and III

☐ Only II

☐ I and II

Question 2

1 / 1 pts

What is the correct syntax for list comprehension in Clean? (Assume that `ls` is a list)

☐ `[x+1 : ls]`

☐ `[x+1 \ x in ls]`

Correct!

☒ `[x+1 \ x <- ls]`

☐ `[x+1 \ x : ls]`

Question 3

1 / 1 pts

What is the output of the following code:

```
module quiz
import StdEnv
```

```
f :: [Int] [Int] -> [(Int,Int)]
```

```
f a b = [(x,y) \ x <- a, y <- b | x < y]
```

```
Start= f [1,7,3] [8,4,2,5]
```

☐ `[True, False, False]`

Correct!

☒ `[(1,8),(1,4),(1,2),(1,5),(7,8),(3,8),(3,4),(3,5)]`

☐ `[(7,4),(3,2)]`

☐ `[(1,8)]`

Question 4

1 / 1 pts

Which one of the options below is not a valid expression?

☐ `[x+y \ x <- [1..5], y <- [1..7]]`

Correct!

☒ `[x+y \ x <- [1..5] ^ y <- [1..7]]`

☐ `[x+x \ x <- [1..5] | isOdd x]`

☐ `[x+y \ x <- [1..5] & y <- [1..7]]`

Question 5

0 / 1 pts

What is the output of the following code:

module code

import StdEnv

mySort:: [Int] -> [Int]

mySort [] = []

mySort [x:xs] = right ++ [x] ++ left

where

left = mySort [y \ y <- xs | y > x]

right = mySort [y \ y <- xs | y < x]

Start = mySort [2,3,2,1,4,3,3,5]

☐ `[5,4,3,3,3,2,2,1]`

☐ `[5,4,3,2,1]`

You Answered

☒ `[1,2,2,3,3,3,4,5]`

Correct Answer

☐ `[1,2,3,4,5]`

`mySort` sorts list in increasing order, and also drops duplicates, as none of the two sides take elements equal to `x`.

Quiz Score: 3 out of 5