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vivekdubey74rr@gmail.com ▾

NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Introduction To Haskell Programming (course)



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Course outline

How does an NPTEL
online course work? ()

Week 1: Introduction ()

Week 2: Lists, Strings,
Tuples ()

Week 3: Assignment 3

The due date for submitting this assignment has passed.

Due on 2023-08-16, 23:59 IST.

Assignment submitted on 2023-08-16, 21:26 IST

1) What is the value of the following expression?

```
drop 10 (takeWhile (>30) [0,4..90])
```

No, the answer is incorrect.

Week 3: Rewriting, Polymorphism, Higher Order Functions on Lists ()

- ☐ Computation as rewriting (unit? unit=30&lesson=31)
- ☐ Polymorphism and higher-order functions (unit? unit=30&lesson=32)
- ☐ Map and filter (unit? unit=30&lesson=33)
- ☐ List comprehension (unit? unit=30&lesson=34)
- ☐ Folding through a list (unit? unit=30&lesson=35)
- ☐ More list functions: takeWhile, zipWith, zip (unit? unit=30&lesson=36)
- ☐ Week 3 Feedback Form: Introduction To Haskell Programming (unit? unit=30&lesson=37)

Quiz: Week 3: Assignment 3 (assessment?name=94)

Score: 0

Accepted Answers:

(Type: String) []

1 point

2) What is the value of the following expression?

```
take 5 (dropWhile (<30) [0,8..50])
```

[32,40,48]

Yes, the answer is correct.

Score: 0

Accepted Answers:

(Type: String) [32,40,48]

0 points

3) What is the type of the following function f?

```
f x y z = map (not . y) (zipWith (&&) x z)
```

Your answer should have no intervening space.

f::[Bool]->(Bool->Bool)->[Bo

No, the answer is incorrect.

Score: 0

Accepted Answers:

(Type: String) [Bool]->(Bool->Bool)->[Bool]->[Bool]

1 point

4) What is the value of the following expression?

```
take 5 (foldl (\y x -> [x]:y) [] [0..99])
```

[[99],[98],[97],[96],[95]]

☐ Practice: Week 3:
Assignment 3 (Non
Graded) (assessment?
name=97)

**Week 4: Efficiency,
Sorting, Infinite lists,
Conditional
polymorphism, Using
ghci ()**

**Week 5: User-defined
datatypes, abstract
datatypes, modules ()**

**Week 6: recursive data
types, search trees ()**

Week 7: arrays, IO ()

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**Problem Solving
Session - July 2023 ()**

Yes, the answer is correct.
Score: 1

Accepted Answers:
(Type: String) `[[99],[98],[97],[96],[95]]`

1 point

5) What is the value of the following expression?

```
foldl (\l x -> l ++ [x + last l]) [0] [1..5]
```

Yes, the answer is correct.
Score: 1

Accepted Answers:
(Type: String) `[0,1,3,6,10,15]`

1 point

6) What is the position of (4,4) in the following infinite list?

```
[(i,k-i) | k <- [0,2..], i <- [0..k]]
```

Remember that list positions start with 0.

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Numeric) `20`

1 point

7) Where does (2, 3) occur in the following infinite list?

```
[(i,k-i) | k <- [0,2..], i <- [0..k]]
```

☐ Does not occur

1 point

- ☒ Position 10
- ☐ Position 18
- ☐ Position 5

No, the answer is incorrect.

Score: 0

Accepted Answers:

Does not occur

8) Consider the following definition of the function `myRepeat`.

1 point

```
myRepeat f 0 x = [x]
myRepeat f n x = f (tail (myRepeat f (n-1) x))
```

What is the most general type for the argument `f`?

- ☐ `a -> a`
- ☐ `a -> [a]`
- ☒ `[a] -> [a]`
- ☐ `[a] -> a`

Yes, the answer is correct.

Score: 1

Accepted Answers:

[a] -> [a]