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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 2: Assignment 2

The due date for submitting this assignment has passed.

Due on 2023-08-09, 23:59 IST.

Assignment submitted on 2023-08-07, 00:17 IST

1 point

1) What is the type of the following list?

[ (&), (<) ]

☒ [Bool -> Bool -> Bool]

☐ [Bool -> Bool]

☐ Type error

- ☐ Lists (unit? unit=24&lesson=25)
- ☐ Functions on lists (unit? unit=24&lesson=26)
- ☐ Characters and strings (unit? unit=24&lesson=27)
- ☐ Tuples (unit? unit=24&lesson=28)

**Quiz: Week 2: Assignment 2 (assessment?name=93)**

- ☐ Practice: Week 2: Assignment 2 (Non Graded) (assessment? name=96)
- ☐ Week 2 Feedback Form: Introduction To Haskell Programming (unit? unit=24&lesson=29)

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

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

☐ Int -> Bool

Yes, the answer is correct.

Score: 1

Accepted Answers:

`[Bool -> Bool -> Bool]`

2) Suppose `l1` and `l2` are defined as follows:

```
l1 = filter isUpper ['a'..'z']
l2 = zipWith (<) [0..26] [1..]
```

What is the value of `l1 == l2`?

- ☐ True
- ☒ False
- ☐ Type error
- ☐ [True]

No, the answer is incorrect.

Score: 0

Accepted Answers:

*Type error*

3) What is the value of the expression `f [1..5]` where `f` is defined as follows?

```
f           = g (\x -> x)
g k []      = k 100
g k (x:xs)  = g ((x*) . k) xs
```

2400

No, the answer is incorrect.

Score: 0

Accepted Answers:

*(Type: Numeric) 12000*

**1 point**

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

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

**Week 7: arrays, IO ()**

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**Books ()**

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

**1 point**

4) What is the value of the expression `f 6` where `f` is defined as below?

```
f      = snd . g
g 0    = (0,0)
g n    = let (x,y) = g (n-1)
          in (x+1, y-x)
```

-16

No, the answer is incorrect.

Score: 0

Accepted Answers:

(Type: Numeric) -15

**1 point**

**1 point**

5) Given below is an incomplete definition for the function `drop`. Complete the code by filling in the blanks.

```
drop n l
  | n <= 0 || null l    = l
  | otherwise          = _____
```

- ☐ tail l
- ☒ drop (n-1) (tail l)
- ☐ drop (n-1) l
- ☐ drop n (tail l)

Yes, the answer is correct.

Score: 1

Accepted Answers:

*drop (n-1) (tail l)*

