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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) What is the type of the following list? ***1 point***

```
[(&&), (<)]
```

- [x] `[Bool -> Bool -> Bool]`
- [ ] `[Bool -> Bool]`
- [ ] Type error

- `Int -> Bool`

Yes, the answer is correct.
Score: 1

Accepted Answers:
`[Bool -> Bool -> Bool]`

2) Suppose `l1` and `l2` are defined as follows: ***1 point***

```
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

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)
```

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No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Numeric) -15

1 point

5) Given below is an incomplete definition for the function drop. Complete the code by filling in the blanks. ***1 point***

```
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)