

Unit 3 - Week 2: Lists, Strings, Tuples

Course outline

How to access the portal

Week 1: Introduction

Week 2: Lists, Strings, Tuples

- Lists
- Functions on lists
- Characters and strings
- Tuples
- Week 2 Feedback

Quiz : Assignment 2

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

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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Text Transcripts

1st Nov Programming Test Session-1 (10am-12 noon)

1st Nov Programming Test Session-2 (8pm-10pm)

Assignment 2

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2019-09-11, 23:59 IST.

1) What is the type of the following list?

```
[[ ], [1/=2], [True<False]]
```

- [Bool]
- [[Bool]]
- Type error
- [Int]

No, the answer is incorrect.

Score: 0

Accepted Answers:

[[Bool]]

1 point

2) Suppose l1 and l2 are defined as follows:

```
l1 = filter isUpper ['a'..'z']
```

```
l2 = [x | x <- [0,2..10], odd x].
```

What is the value of l1 == l2?

- True
- False
- Type error
- 1

No, the answer is incorrect.

Score: 0

Accepted Answers:

Type error

1 point

3) Given below is an incomplete definition for computing the reverse of a list. Complete the code by filling in the blanks.

```
rev l = f [ ] l
f al [ ] = al
f al (x:xs) = _____
```

Hint

No, the answer is incorrect.

Score: 0

Accepted Answers:

(Type: String) f (x:al) xs

1 point

4) What is the value of the function f defined below?

```
f = (l, length l)
```

```
where l = [32, 28.3..1]
```

Hint

No, the answer is incorrect.

Score: 0

Accepted Answers:

(Type: String) ([32,28.3,24.6,20.9,17.2,13.5,9.8,6.1,2.4],9)

1 point

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

```
take n l
  | n <= 0 || null l = [ ]
  | otherwise       = _____
```

Hint

No, the answer is incorrect.

Score: 0

Accepted Answers:

(Type: String) head l:take (n-1) (tail l)

1 point