

NPTELL

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Courses » Programming, Data Structures and Algorithms using Python

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Unit 15 - Week 6 Quiz



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Certification exam

Course outline

How to access the portal

Week 1: Introduction

Week 1 Quiz

Week 2: Basics of Python

Week 2 Quiz

Week 2 Programming Assignment

Week 3: Lists, inductive function definitions, sorting

Week 3 Programming Assignment

Week 4: Sorting, Tuples, Dictionaries, Passing Functions, List Comprehension

Week 4 Quiz

Week 4 Programming Assignment

Week 5: Exception handling, input/output, file

Week 6 Quiz

The due date for submitting this assignment has passed. Due on 2019-03-13, 23:59 IS As per our records you have not submitted this assignment.

All questions carry equal weightage. All Python code is assumed to be executed using Python3. You may submit as many times as you like within the deadline. Your final submission will be graded. **Note**:

- If the question asks about a value of type string, remember to enclose your answer in single or double quotes.
- If the question asks about a value of type list, remember to enclose your answer in square brackets and use commas to separate list items.
- 1) Suppose u and v both denote sets in Python. Under what condition can we guarantee that 2.5 points u (u v) == v?
 - The sets u and v should be disjoint.
 - The set u should be a subset of the set v
 - The set v should be a subset of the set u
 - This is true for any u and v.Qu

No, the answer is incorrect.

Score: 0

Feedback:

u - (u - v) is effectively u intersection v. If this is equal to v, it means that v is a subset of u.

Accepted Answers:

The set v should be a subset of the set u

- 2) Suppose u and v both denote sets in Python. Under what condition can we guarantee that **2.5 points** $u \mid v == u^v$?
 - The sets u and v should be disjoint.
 - The set v should be a subset of the set u
 - The set u should be a subset of the set v
 - This is true for any u and v.

No, the answer is incorrect.

Score: 0

Feedback:

The condition implies that each element in the union of u and v occurs in exactly one of the two sets, so the two sets must be disjoint.

Accepted Answers:

The sets u and v should be disjoint.

3) Suppose we insert 97 into the max heap [98,67,89,38,42,54,89,17,25]. What is the resulting neap?

handling, string processing

Week 5 Programming Assignment

Week 6: Backtracking, scope, data structures; stacks, queues and heaps

Week 6 Quiz

Quiz : Week 6
Quiz

Week 7: Classes, objects and user defined datatypes

Week 7 Quiz

Week 8: Dynamic programming, wrap-up

Week 8 Programming Assignment

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No, the answer is incorrect.

Score: 0

Feedback:

Execute heap insert and check.

Accepted Answers:

(Type: Regex Match) []*[[]*98,[]*97,[]*89,[]*38,[]*67,[]*54,[]*89,[]*17,[]*25,[]*42[]*][]*

5 poi f

4) Suppose we we apply delete_max() twice to the heap [100,97,93,38,67,54,93,17,25,42] What is the resulting heap?



No, the answer is incorrect.

Score: 0

Feedback:

Execute delete_max() and check

Accepted Answers:

(Type: Regex Match) [[]*93,[]*67,[]*93,[]*38,[]*42,[]*54,[]*25,[]*17[]*][]*



2.5 points

End

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