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Unit 15 - Week 6 Quiz

Week 6 Quiz

The due date for submitting this assignment has passed. Due on 2019-03-13, 23:59 IST.
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 `u - (u - v) == v`? ***2.5 points***

- 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 `u|v == u^v`? ***2.5 points***

- 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 tl 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 heap?

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[ ]*][ ]**

2.5 poi

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?

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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