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Courses » Programming, Data Structures and Algorithms using Python

Announcements

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Unit 10 - Week 4 Quiz

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Week 4 Quiz

The due date for submitting this assignment has passed.

Due on 2019-02-27, 23:59 IST

Assignment submitted on 2019-02-27, 20:47 IST

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) Consider the following Python function.

```
def mystery(l):
    if len(l) < 2:
        return (l)
    else:
        return ([l[-1]] + mystery(l[1:-1])) + [l[0]]
```

What does `mystery([23,13,71,66,28,55])` return?`[55, 28, 66, 71, 13, 23]`

Yes, the answer is correct.

Score: 2.5

Accepted Answers:

(Type: *Regex Match*) `ls*ls*55ls*,ls*28ls*,ls*66ls*,ls*71ls*,ls*13ls*,ls*23ls*ls*`

2.5 points

2) What is the value of `triples` after the following assignment?

```
triples = [ (x,y,z) for x in range(1,4) for y in range(2,5) for z in range(5,8) if x+y > z ]
```

`[(2, 4, 5), (3, 3, 5), (3, 4, 5), (`

Yes, the answer is correct.

Score: 2.5

Accepted Answers:

(Type: *Regex Match*) `ls*ls*(2ls*,ls*4ls*,ls*5ls*)ls*,ls*(ls*3ls*,ls*3ls*,ls*5ls*)ls*,ls*(ls*3ls*,ls*4ls*,ls*5ls*)ls*,ls*(ls*3ls*,ls*4ls*,ls*6ls*)ls*ls*`

2.5 points

3) Consider the following dictionary.

```
runs = {"Test":{"Dhawan":[190,14,35,119],"Kohli":[3,103,13,42],"Pujara":[153,15,133,8]},"ODI":{"Dhawan":[37],"Kohli":
```

Which of the following statements does **not** generate an error?

- ☒ `runs["ODI"]["Pujara"]=[44]`
- ☐ `runs["ODI"]["Pujara"][0]=44`
- ☐ `runs["ODI"]["Pujara"].extend([44])`
- ☐ `runs["ODI"]["Pujara"].append([44])`

Yes, the answer is correct.

Score: 2.5

Feedback:

`runs["ODI"]["Pujara"]` creates a new key, so one can only assign it a fresh value, not access parts of the value or append to or extend the value.

Accepted Answers:

`runs["ODI"]["Pujara"]=[44]`4) Assume that `inventory` has been initialized as an empty dictionary:`inventory = {}`

2.5 points

Which of the following generates an error?

- ☐ `inventory["Amul"] = ["Mystic Mocha", 55]`
- ☐ `inventory["Amul, Mystic Mocha"] = 55`
- ☒ `inventory[["Amul", "Mystic Mocha"]] = 55`
- ☐ `inventory[("Amul", "Mystic Mocha")] = 55`

Yes, the answer is correct.

Score: 2.5

Feedback:

Dictionary keys must be immutable values.

Accepted Answers:

`inventory[["Amul", "Mystic Mocha"]] = 55`

End



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