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07:52:04



< Previous



Next >

Problem 1

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Quiz due Nov 23, 2022 07:30 +08

Problem 1-1

1/1 point (graded)

The following function is stochastic:

```
def f(x):  
    # x is an integer  
    return int(x + random.choice([0.25, 0.5, 0.75]))
```

☐ True

☒ False



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You have used 1 of 1 attempt

✓ Correct (1/1 point)

Problem 1-2

1/1 point (graded)

In Python, we can use `random.seed(100)` at the beginning of a program to generate the same sequence of random numbers each time we run a program.

☒ True

☐ False



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✓ Correct (1/1 point)

Problem 1-3

1/1 point (graded)

A brute force solution to the 0/1 knapsack problem will always produce an optimal solution.

☒ True

☐ False



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✓ Correct (1/1 point)

Problem 1-5

Calculator

Hide Notes

1/1 point (graded)

Consider an undirected graph with non-negative weights that has an edge between each pair of nodes. The shortest distance between any two nodes is always the path that is the edge between the two nodes.

☐ True

☒ False

✓

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