Week 7 Quiz

Assignment not submitted

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All questions carry equal weightage. All Python code is assumed to be executed using Python3. You may submit as many times

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

1) Given the following permutation of a,b,c,d,e,f,g,h,i,j, what is the **previous** permutation in lexicographic (dictionary) order?
blank spaces between letters.

```
fjadchbegi
```

[   ]

2) Assume we have defined a class Node that implements user defined lists of numbers. Each object node of type Node has
node.value and node.next with the usual interpretation. We want to add a function sum() to the class Node which will compute t
incomplete implementation of sum() given below. What should be put in place of XXX and YYY?

```python
def sum(self):
  if self.value == None:
    return(0)
  elif self.next == None:
    return(XXX)
  else:
    return(YYY)
```

- ○ Replace XXX by 1 and YYY by 1 + self.next.sum()
- ○ Replace XXX by 1 and YYY by self.value + self.next.sum()
- ○ Replace XXX by self.value and YYY by 1 + self.next.sum()
- ○ Replace XXX by self.value and YYY by self.value + self.next.sum()