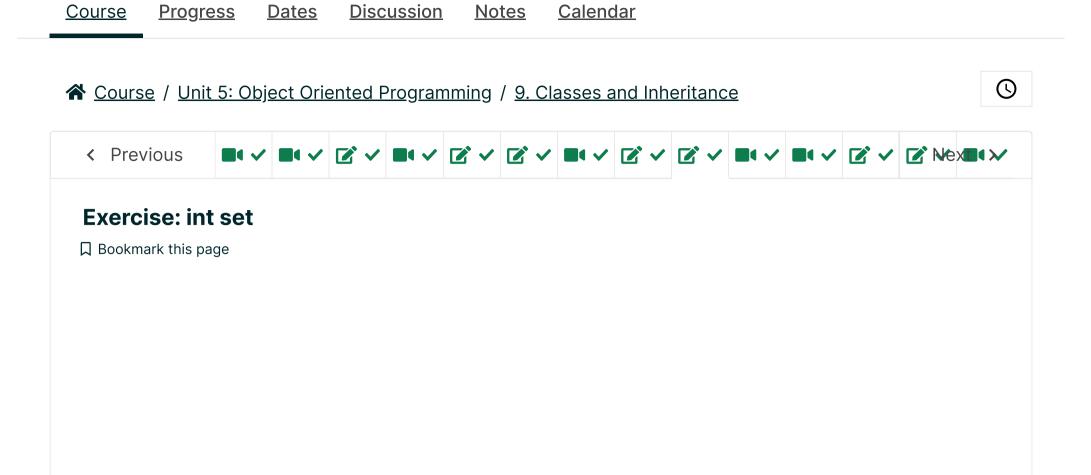
<u>Help</u>

shengtatng ~



Finger Exercises due Oct 27, 2022 07:30 +08 Completed

Exercise: int set 5.0/5.0 points (graded)

## **ESTIMATED TIME TO COMPLETE: 10 minutes**

Consider the following code from the last lecture video:

```
class intSet(object):
   """An intSet is a set of integers
   The value is represented by a list of ints, self.vals.
   Each int in the set occurs in self.vals exactly once."""
   def __init__(self):
        """Create an empty set of integers"""
       self.vals = []
   def insert(self, e):
        """Assumes e is an integer and inserts e into self"""
       if not e in self.vals:
            self.vals.append(e)
   def member(self, e):
        """Assumes e is an integer
           Returns True if e is in self, and False otherwise"""
        return e in self.vals
   def remove(self, e):
        """Assumes e is an integer and removes e from self
           Raises ValueError if e is not in self"""
        try:
            self.vals.remove(e)
        except:
            raise ValueError(str(e) + ' not found')
   def __str__(self):
        """Returns a string representation of self"""
        self.vals.sort()
        return '{' + ','.join([str(e) for e in self.vals]) + '}'
```

Your task is to define the following two methods for the intset class:

1. Define an intersect method that returns a new intSet containing elements that appear in both sets. In other words,

```
s1.intersect(s2)
```

would return a new intSet of integers that appear in both s1 and s2. Think carefully - what should happen if s1 and s2 have no elements in common?

2. Add the appropriate method(s) so that  $\lfloor len(s) \rfloor$  returns the number of elements in  $\lfloor s \rfloor$ .

Hint: look through the Python docs to figure out what you'll need to solve this problem.

```
1 class intSet(object):
      """An intSet is a set of integers
2
3
      The value is represented by a list of ints, self.vals.
4
      Each int in the set occurs in self.vals exactly once."""
5
6
      def __init__(self):
7
          """Create an empty set of integers"""
8
          self.vals = []
9
          self.returnlen = 0
10
          self.returnlist = []
11
12
      def insert(self, e):
          """Assumes e is an integer and inserts e into self"""
13
14
          if not e in self.vals:
                                                                                                        Hide Notes
15
              self.vals.append(e)
```

Correct	
est results	
CORRECT	See full output
CORRECT	<u>See full output</u>
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Could we use set properties and intersection function to solve Q1? if not , why? I tried to solve this using set functions, and I could quite get the results needed. Instead I used methods def	fined in the class to solve
? 'intSet' object has no attribute 'intersect'  I suspect I have a typo somewhere, but even after defining 'intersect' I get the error message referenced in the suspect I have a typo somewhere.	7 the post title. def interse
TypeError: object of type 'intSet' has no len()  How can there be no len() when I defined the method def len(self): count = 0 for i in self.vals: count += 1 ret	turn count
Not sure why I am getting this error. Can someone explain?  TypeError: argument of type 'intSet' is not iterable def intersect(self, s2): newSet = [] for e in self.vals: if e not iterable def intersect(self, s2): newSet = [] for e in self.vals: if e not iterable def intersect(self, s2): newSet = [] for e in self.vals: if e not iterable def intersect(self, s2): newSet = [] for e in self.vals: if e not iterable def intersect(self, s2): newSet = [] for e in self.vals: if e not iterable def intersect(self, s2): newSet = [] for e in self.vals: if e not iterable def intersect(self, s2): newSet = [] for e in self.vals: if e not iterable def intersect(self, s2): newSet = [] for e in self.vals: if e not iterable def intersect(self, s2): newSet = [] for e in self.vals: if e not iterable def intersect(self, s2): newSet = [] for e in self.vals: if e not iterable def intersect(self, s2): newSet = [] for e in self.vals: if e not iterable def intersect(self, s2): newSet = [] for e in self.vals: if e not iterable def intersect(self, s2): newSet = [] for e in self.vals: if e not iterable def intersect(self, s2): newSet = [] for e in self.vals: if e not iterable def intersect(self, s2): newSet = [] for e in self.vals: if e not iterable def intersect(self, s2): newSet = [] for e in self.vals: if e not iterable def intersect(self, s2): newSet = [] for e in self.vals: if e not iterable def intersect(self, s2): newSet = [] for e in self.vals: if e not iterable def intersect(self, s2): newSet = [] for e in self.vals: if e not iterable def intersect(self, s2): newSet = [] for e in self.vals: if e not iterable def intersect(self, s2): newSet = [] for e in self.vals: if e not iterable def intersect(self, s2): newSet = [] for e in self.vals: if e not iterable def iterab	ot in s2: newSet.append(
Is my understanding correct? s1 has been called with s1 = intSet() s2 has been called with s2 = intSet() Now s2 is being passed into interse	section method but I am n
PLEASE HELP! def intersect(self, other): new=intSet() x=0 for i in self.vals: if self.vals[x]!= other.vals[x]: new.vals.append[i]	5 x+=1 return new.vals W
Question 2 and Python docs I solved question 2, but looking at the linked Python docs didn't help me. I am just wondering what I missed	that I was supposed to b
$ ext{a lot of Java on the brain}$ $ ext{ldiomatic python would at least rename } \textit{member}_{to}\_\textit{c onta} \in \textit{s}\_\textit{and probably alias}\_\textit{and }\_to \int er \sec (s) ds$	c tion_etc. so operators
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