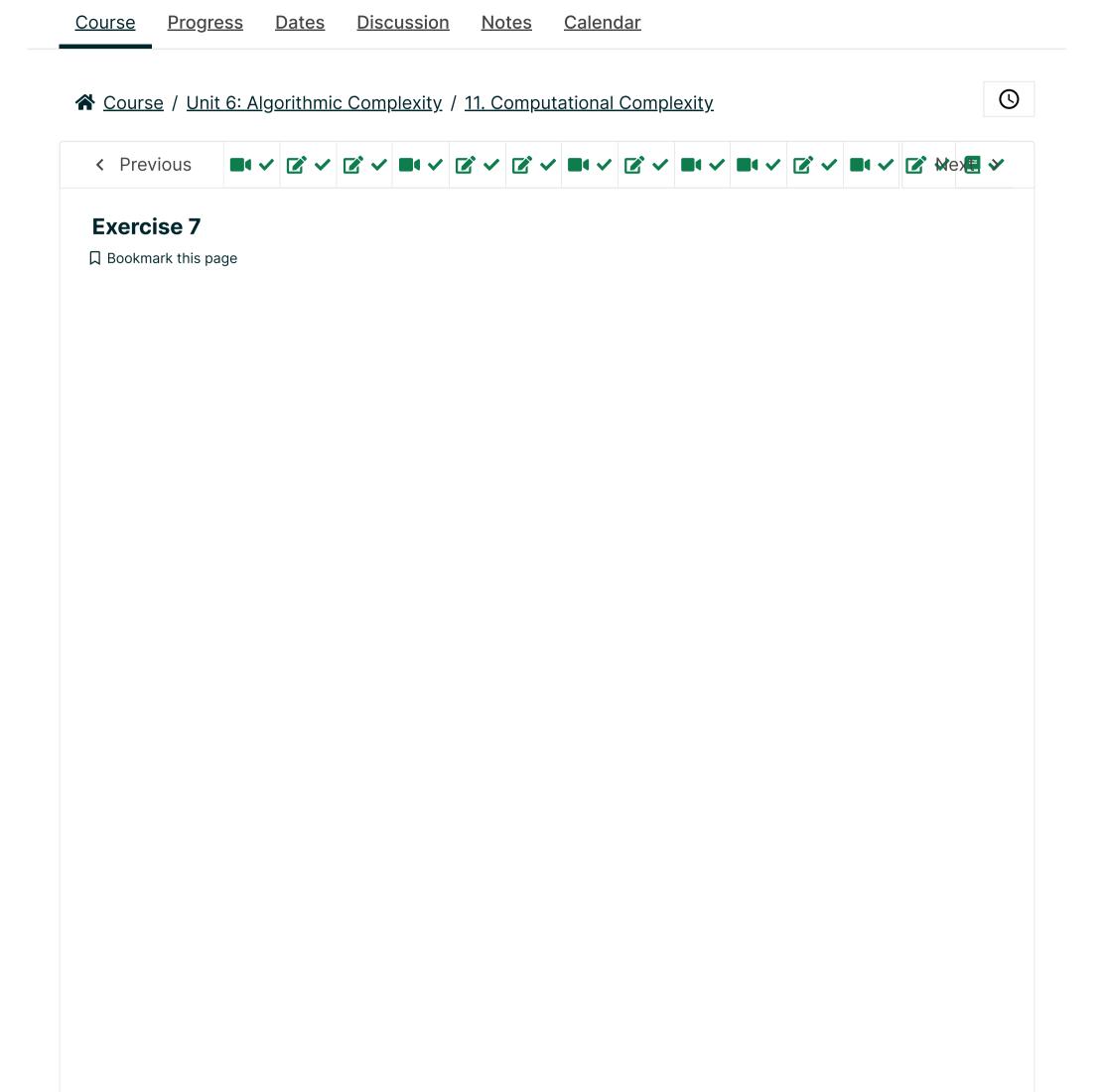
<u>Help</u>

shengtatng ~



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

Exercise 7

4/4 points (graded)

ESTIMATED TIME TO COMPLETE: 10 minutes

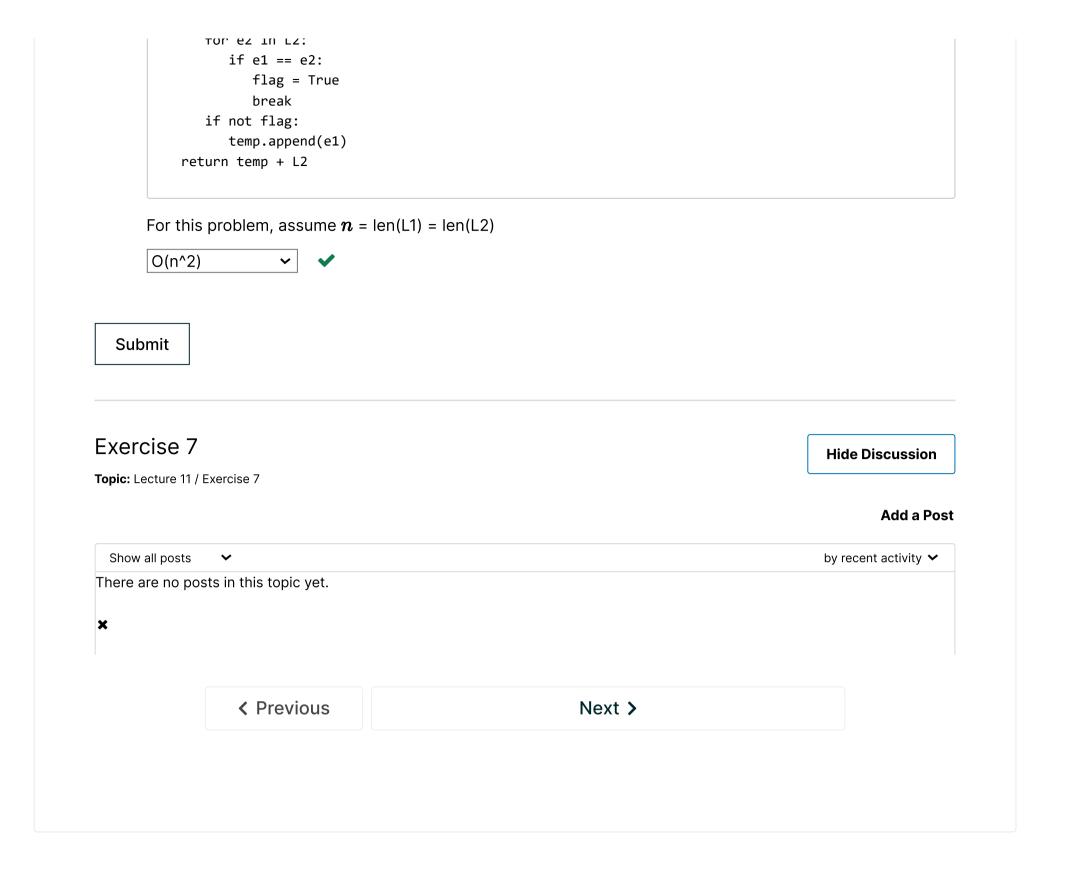
for e1 in L1:

flag = False

Consider the following Python procedures. For each one, specify its order of growth.

```
def lenRecur(s):
       if s == '':
          return 0
       else:
          return 1 + lenRecur(s[1:])
   O(len(s))
2.
    def isIn(a, s):
       a is a character, or, singleton string.
       s is a string, sorted in alphabetical order.
       if len(s) == 0:
          return False
       elif len(s) == 1:
          return a == s
       else:
          test = s[len(s)//2]
          if test == a:
             return True
          elif a < test:</pre>
             return isIn(a, s[:len(s)//2])
          else:
             return isIn(a, s[len(s)//2+1:])
   O(log(len(s)))
3.
    def union(L1, L2):
       L1 & L2 are lists of the same length, n
       temp = L1[:]
       for e2 in L2:
          flag = False
          for check in temp:
             if e2 == check:
                flag = True
                break
          if not flag:
             temp.append(e2)
       return temp
  For this problem, assume n = len(L1) = len(L2)
   O(n^2)
4.
    def unionNew(L1, L2):
       L1 & L2 are lists of the same length, n
       temp = []
```

Hide Notes



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