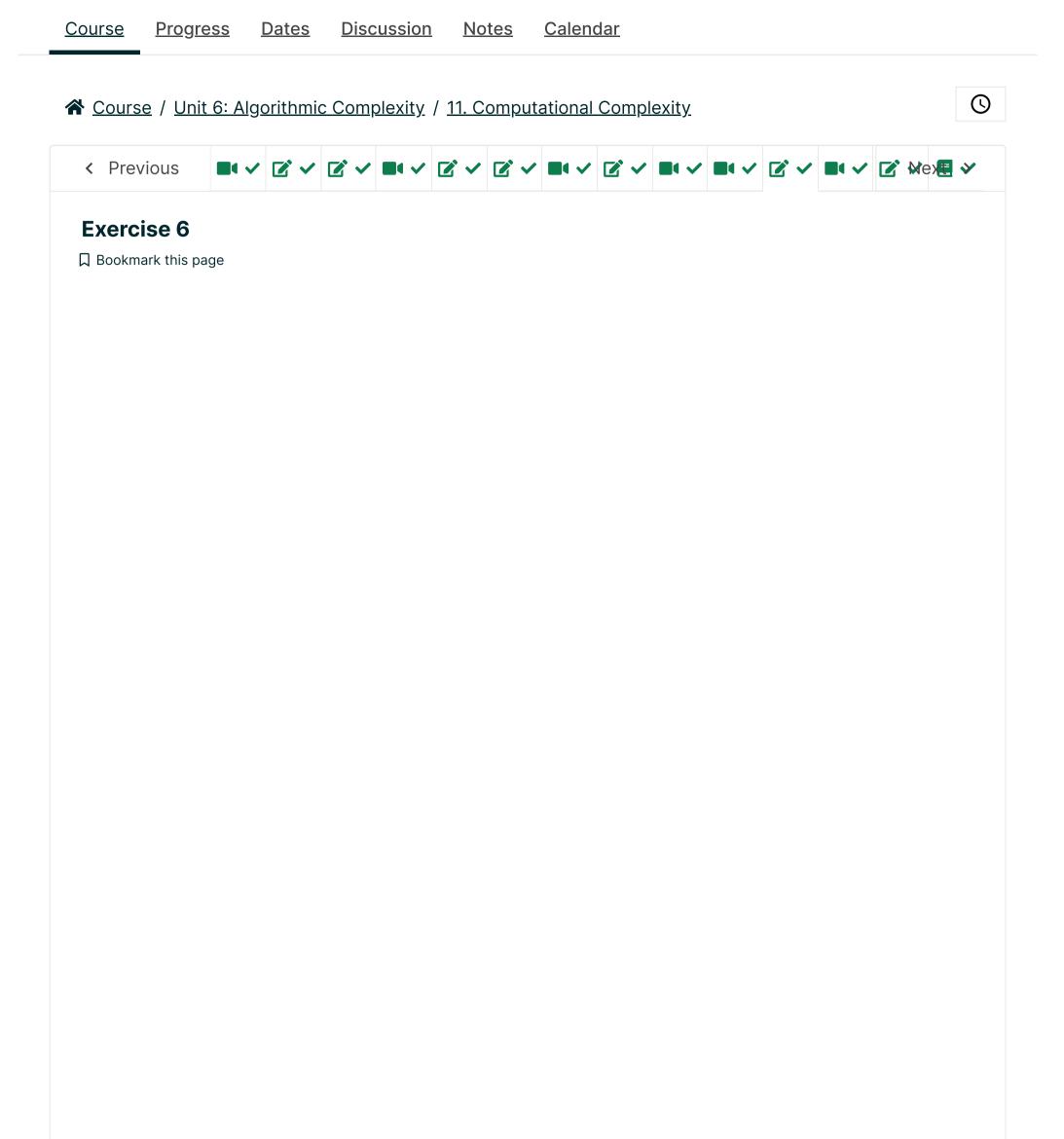
<u>Help</u>

shengtatng ~



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

Exercise 6

4/4 points (graded)

ESTIMATED TIME TO COMPLETE: 6 minutes

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

```
# Assume n has been previously bound to some value
        i = 0
        while i < 5:
          n *= 2
           i += 1
        print(n)
       0(1)
        def iterPower(a, b):
           result = 1
           while b > 0:
              result *= a
              b -= 1
           return result
       O(b)
        def recurPower(a, b):
           print(a, b)
           if b == 0:
              return 1
              return a * recurPower(a, b-1)
       O(b)
        def recurPowerNew(a, b):
           print(a, b)
           if b == 0:
              return 1
           elif b%2 == 0:
              return recurPowerNew(a*a, b/2)
              return a * recurPowerNew(a, b-1)
       O(log(b))
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Exercise 6
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