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Exercise 6

Finger Exercises due Aug 5, 2020 20:30 -03

Exercise 6

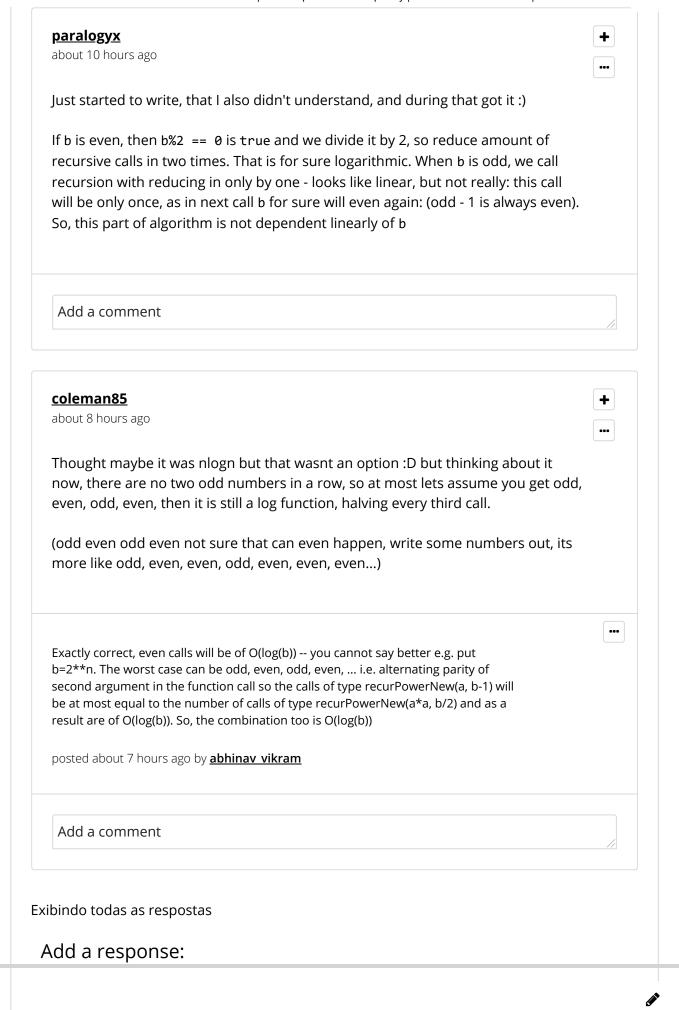
3/4 points (graded)

ESTIMATED TIME TO COMPLETE: 6 minutes

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

```
1.
# Assume n has been previously bound to some value
i = 0
while i < 5:
    n *= 2
    i += 1
print(n)</pre>
```

```
3.
        def recurPower(a, b):
            print(a, b)
            if b == 0:
               return 1
            else:
               return a * recurPower(a, b-1)
        O(b)
                                     ✓ Answer: O(b)
    4.
        def recurPowerNew(a, b):
            print(a, b)
            if b == 0:
               return 1
            elif b%2 == 0:
               return recurPowerNew(a*a, b/2)
            else:
               return a * recurPowerNew(a, b-1)
        O(log(b))
                                     Answer: O(log(b))
   Enviar
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