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Problem 4

Problem Set due Jul 30, 2020 20:30 -03   *Completo*

Problem 4-1

1/1 point (graded)
Consider the following Python procedure. Specify its order of growth.

```
def modten(n):
    return n%10
```

O(1) ⬇   ✔

Enviar   You have used 1 of 1 attempt

Problem 4-2

1/1 point (graded)
Consider the following Python procedure. Specify its order of growth.

✏️

```
def multlist(m, n):
    '''
    m is the multiplication factor
    n is a list.
    '''
    result = []
    for i in range(len(n)):
        result.append(m*n[i])
    return result
```

O(len(n)) ⌄   ✔

Enviar   You have used 1 of 1 attempt

Problem 4-3

1/1 point (graded)
Consider the following Python procedure. Specify its order of growth.

```
def foo(n):
    if n <= 1:
        return 1
    return foo(n/2) + 1
```

O(log(n)) ⌄   ✔

Enviar   You have used 1 of 1 attempt

Problem 4-4

1/1 point (graded)
Consider the following Python procedure. Specify its order of growth.

✏

```
def recur(n):
    if n <= 0:
        return 1
    else:
        return n*recur(n-1)
```

O(n) ▾   ✔

Enviar   You have used 1 of 1 attempt

Problem 4-5

1/1 point (graded)
Consider the following Python procedure. Specify its order of growth.

```
def baz(n):
    for i in range(n):
        for j in range(n):
            print( i,j )
```

O(n^2) ▾   ✔

Enviar   You have used 1 of 1 attempt

Problem 4

Topic: Problem Set 6 / Problem 4

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💬 Not able to understand...   1 new
~~Hi! I tried attempting this group of problems but somehow didn't get any of them. I tried to do th...~~

💬 Be careful - I accidentally scrolled and answered the wrong question. Always check   ✎

before submitting.

Check answer matches question before pressing submit button.

1

◄   ►