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Week 6: Algorithmic Complexity > Problem Set 6 > Problem 4

Problem 4

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Problem 4-1

1 point possible (graded)

Consider the following Python procedure. Specify its order of growth.

```
<u>Entrance</u>
Survey
```

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Select an option \$

▶ Week 1: Python Basics

Submit You have used 0 of 1 attempt

▶ Week 2: Simple **Programs**

Problem 4-2

▶ Week 3: **Structured Types**

1 point possible (graded)

Consider the following Python procedure. Specify its order of growth.

```
▶ Week 4: Good
 Programming
 Practices
```

Midterm Exam

```
def multlist(m, n):
   m is the multiplication factor
   n is a list.
   1 1 1
   result = []
   for i in range(len(n)):
```

return result

Week 5: Object **Oriented Programming**

Select an option



result.append(m*n[i])

▼ Week 6: **Complexity**

Algorithmic

11. Computational Complexity

Finger Exercises

12. Searching and **Sorting Algorithms**

Finger Exercises

Problem Set 6

Problem Set due Mar 9, 2017 15:30 PST

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Submit

You have used 0 of 1 attempt

Problem 4-3

1 point possible (graded)

Consider the following Python procedure. Specify its order of growth.

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

Select an option ♦

Submit

You have used 0 of 1 attempt

Problem 4-4

1 point possible (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)
```

Select an option \$

Submit

You have used 0 of 1 attempt

Problem 4-5



1 point possible (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) Select an option \$ You have used 0 of 1 attempt Submit Problem 4 **Show Discussion** Topic: Problem Set 6 / Problem 4

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