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#!/usr/bin/python
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Homework 1 Question 2a

Usage: ./script.py <nth number of Fibonacci sequence>

Example: ./MLN\_hw1\_q2a.py 5

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# IMPORTS #
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import sys
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# FUNCTIONS #
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```
def fib(num):
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```
    # num == 0
```

```
    # if asking for the 0th fib number, return 0
```

```
    if num == 0:
```

```
        return 0
```

```
    # num == 1
```

```
    # if asking for the 1st fib number, return 1
```

```
    if num == 1:
```

```
        return 1
```

```
    # num > 1
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```
    # otherwise, return the sum of fib(num-1) and fib(num-2)
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```
    if num > 1:
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```
        return fib(num-1) + fib(num-2)
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```
    # otherwise, negative number given, return None
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```
    else:
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```
        return None
```

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# MAIN #
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try:
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```
    print "\nFibonacci number %s is %s\n" %(sys.argv[1],
```

```
    fib(int(sys.argv[1])))
```

```
except:
```

```
    print "\nPlease give me a number for the Fibonacci sequence\n"
```

```
    sys.exit()
```