

**22C:16 Quiz 10**  
**Date: Apr 17th, 2012**

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1. **[5 points]** You are required to write a function called `updateFrequencies` that takes as parameters a dictionary of word frequencies and a list words and “updates” the dictionary of word frequencies to take into account the given list of words. For example, the given dictionary might be `{"hello": 11, "ask": 19, "animal": 2, "hi": 6, "build": 4, "able": 3}`. Suppose that the given list is `["animal", "build", "book"]`. Then the dictionary should be updated to `{"hello": 11, "ask": 19, "animal": 3, "hi": 6, "build": 5, "able": 3, "book": 1}`. Note that the function does not return anything — it just modifies the given dictionary.

**Turn over for Problem 2.**

2. [5 points] Write down the output produced when the following program is executed.

```
def fibo(n):
    print n
    if n == 1:
        return 1
    if n == 2:
        return 1

    if n % 2 == 0:
        return fibo(n-2) + fibo(n-1)
    else:
        return fibo(n-1) + fibo(n-2)

# Main program
x = fibo(5)
print "The 5th Fibonacci number is", x
```