

Introduction to Computing
CS110, Fall 2009
Professor Blank
Practice Sheet #2:

1a. A prime number is a number that is only evenly divisible by itself and 1. Write a Python function that determines whether or not a number is prime.

1b. Write a function that takes a list of words that are, in this order: a noun phrase, a place, an animal with determiner, another animal with determiner, another place, a body part, a property of a person. The function should use the words to write a limerick. For example:

```
>>> limerick(["a man", "yuma", "an elephant", "a puma", "hot western skies", "skeleton",  
            "sense of humor"])
```

**There once was a man from yuma
Who told a elephant joke to a puma.
Under hot western skies, his skeleton lies
because the yuma had no sense of humor.**

2. Define the following terms in your own words:

- a. function
- b. return value
- c. computer science
- d. robot
- e. expression
- f. integer
- g. floating-point
- h. long
- i. comment
- j. string

3. How are parameters and arguments different? Define these terms and give examples.

4. What does the following mystery function do?

```
def mystery(a, b, c):  
    return (a + b + c) / 3.0
```

5. Write two functions that will make your robot dance and call them.