## CSE 341 - Haskell Mini-Exercises \# 2

These are questions for discussion in class. (You don't need to hand in anything.) The solutions are on the class web page.

1. What are the first ten elements in the following list?
```
mystery = 1 : map (*2) mystery
```

2. Define a variable ints whose value is the infinite list of all integers. It should be ordered in such a way that you can find any given integer after searching a finite number of elements in ints. In other words, this isn't going to work:
ints $=[1$..] ++ [-1, -2 ..]
3. Write a Haskell action capitalize that reads in a line of text and prints it out in all capitals. (Hint: use the function Char.toUpper.)
4. Convert the following functions into equivalent ones that don't use do:
```
printsqrt2 = do
    putStr "the square root of 2 is "
    putStrLn (show (sqrt 2))
calcsqrt = do
    x <- readLn
    putStrLn "calculating the square root of x"
    putStrLn (show (sqrt x))
```

