Computer Science 134C – Fall 2018 **Anonymous ID:**

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Homework 5 – *Due: Monday, October 15*

Please answer the following questions for Monday's class.

1. How does a *generator* support the notion of *abstraction*?

2. Write a generator, `randInts(lo,hi)`, that yields an infinite stream of random integers between `lo` and `hi`.

3. Write a generator, `randWords()`, that yields an infinite stream of words randomly selected from the dictionary, `/usr/share/dict/words`.

4. Write a generator `reverse(s)` that yields the values from a finite iterable object, `s`, but in reverse order.

5. Write a generator `some(s,p=0.5)` that yields some of the values of `s`. For each value encountered from `s` it flips a coin that has probability `p` of being heads. If the coin shows heads, `some` yields that value, otherwise, it doesn't. (Hint: `random` has a method `random` that returns a random value in the range `[0,1)`.)

⋆