Fa12 Quest Practice Problem Solutions:

What is the run-time?
1.) Linear
2.) Linear
3.) Quadratic
4.) Logarithmic
5.) N * logarithmic
6.) Constant

Q4, Sp11: Her cell phone was sending bits of information indicating her last location, and the police used that to locate her (after suspecting her husband of foul play).

Q4, Fa11:
 a.) **Functional:** Built through a composition of blocks (2)
 b.) **Imperative:** Like a *recipe*. Do this, then that, then that, etc. (4)
 c.) **OOP:** Works via *message passing* (3)
 d.) **Declarative:** “What” not “How” (1)

Q3a, Fa11:
- <pick random [ ] to [ ]>
- <change [ ] by [ ]>
- <item <any> of [list]>

Only these three (to get full points!) Partial points still awarded for getting not all of them correct.

Q6, Sp11:

![Images](attachment:image.png)

Q6a, Fa11:
Domain of $\text{foo}$ (1st argument) : Boolean
Domain of $\text{foo}$ (2nd argument) : Number
Range of $\text{foo}$: Boolean.
Q7, Sp11:
a) Quadratic

b) On anniversary # 1 of Valentine’s day, my true love gave to me...
   1 partridge in a pear tree
On anniversary # 2 of Valentine’s day, my true love gave to me...
   2 turtle doves
   1 partridge in a pear tree
On anniversary # 3 of Valentine’s day, my true love gave to me...
   3 french hens
   2 turtle doves
   1 partridge in a pear tree
Whew! that’s a lot of gifts!

c) Move the “set i to day” right above the “repeat until i = 0” block: