

Fa12 Quest Practice Problem Solutions:

What is the run-time?

- 1.) Linear
- 2.) Linear
- 3.) Quadratic
- 4.) Logarithmic
- 5.) $N * \text{logarithmic}$
- 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:

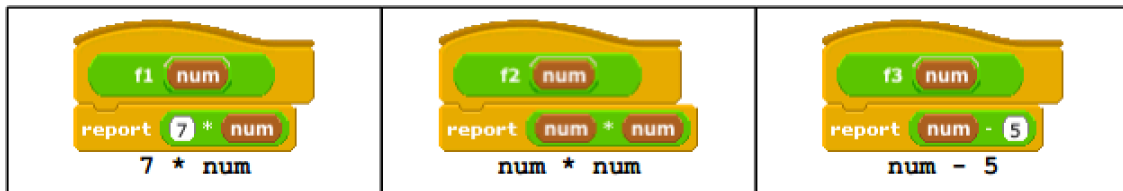
- a.) **Functional:** Built through a composition of blocks (2)
- b.) **Imperative:** Like a *recipe*. Do this, then that, then that, etc. (4)
- c.) **OOP:** Works via *message passing* (3)
- d.) **Declarative:** “What” not “How” (1)

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:



Q6a, Fa11:

Domain of f_{00} (1st argument) : Boolean

Domain of f_{00} (2nd argument) :Number

Range of f_{00} : 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:

