```
Lab 19
Dexter Kale – CS – 3035 – 05
```

## **Question 1:**

```
dexter@dexk-VirtualBox:~/projects$ ./lab19
4
1 third :: (Int, Int, Int) -> Int
2 third (a,b,c) = c
3
4 main = do
5    print(third (3,8,4))
```

Question 2: I couldn't get this to work.

```
1 myLength :: (Num a) => [a] -> a -> a
2 myLength [] = error "This list is empty"
3 myLength (x, _) = (myLength _) + 1
5 \text{ main} = do
         print ( myLength [5,5,7,3] )
lab19-2.hs:3:29: error:

    Found hole: _ :: [a]

      Where: 'a' is a rigid type variable bound by
                the type signature for:
                  myLength :: forall a. Num a => [a] -> a -> a
                at lab19-2.hs:1:1-36

    In the first argument of 'myLength', namely '_'
        In the first argument of '(+)', namely '(myLength _)'
        In the expression: (myLength _) + 1

    · Relevant bindings include
        x :: a0 (bound at lab19-2.hs:3:11)
        myLength :: [a] -> a -> a (bound at lab19-2.hs:2:1)
      Constraints include Num a (from lab19-2.hs:1:1-36)
   myLength(x, _) = (myLength_) + 1
```

Question 3: I couldn't get this to work.

Question 4: In C, reassigning is easy and doable. In Haskell, not so much as most things are immutable.