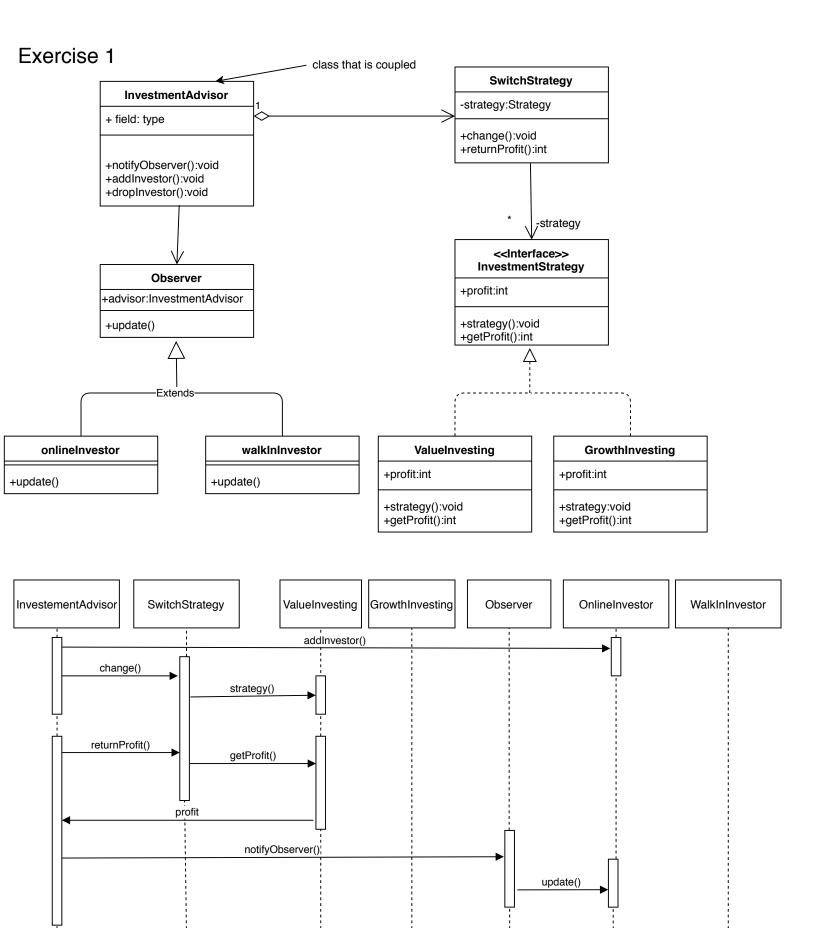
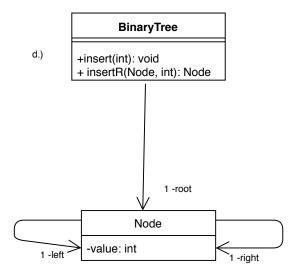
ESOF 322
Assignment 3
Tyler Ewald
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Exercise 2

- a.)

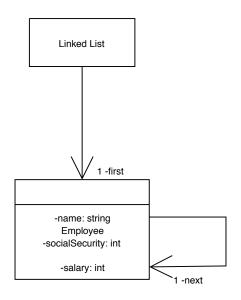
 32 story points, 3 person team, working in sprints of 3 weeks = 45 total man days
 Calculate estimated velocity for the next sprint based on another 3 week sprint,
 but we have added 2 engineer's and 1 can only work 80% of the time.
 Estimated velocity(based on last sprint) = (Total available man days)(Focus
 Factor)
 Focus factor of last sprint = 32/45 = 71%
 Total man days = (4 engineers x 15) + (One engineer @ 80%) = 72 total man days
 Estimated Velocity = 72 x .71 = 51.12 story points
 - b.) If it's a new team you would use the average of accepted story points over the past 3 to 5 iterations for velocity and taking the average over the development teams capacity.
 - c.) The pseudo-fibonacci poker seems like a good idea but i think an easier and speedier Version would still discuss the reason why someone would have a large or small outlier but then just average out the numbers and if the numbers were to fall within the timeframe that "topic" would then fall into a priority category. Say our timeline was 3 weeks (15 days x 3 Engineers) 45 days and our average from the poker was 30 days, that would assume the highest priority and anything lower would be in a lower priority.



```
e.)
public class BinaryTree {
    private Node root;

    public BinaryTree() {
        root = null;
    }
    public void insert(int val) {
        insertR(root, val);
    }
    public Node insertR(Node newNode, int val) {
     }
}
public class Node {
    private Node left, right;
    int value

    public Node(int v) {
        value = v;
        left = null;
        right = null;
    }
}
```



```
g.)
public class Employee {
  private String name;
  private int socialSecurity;
  private int salary;
  public Employee(String name, int socialSecurity, int salary){
  name = name;
  socialSecurity = socialSecurity;
  salary = salary;
  public String getName() {
  return name;
  public void setName(String name) {
  this.name = name;
  public int getSocialSecurity() {
  return socialSecurity;
  public void setSocialSecurity(int socialSecurity) {
  this. socialSecurity = socialSecurity;
  public int getSalary() {
  return salary;
  public void setSalary(int salary) {
  this.salary = salary;
import java.util.LinkedList;
public class Linked_list {
  private LinkedList<Employee> linked_list = new LinkedList<>();
  public void addTail(Employee newNode){
  linked list.addLast(newNode);
```