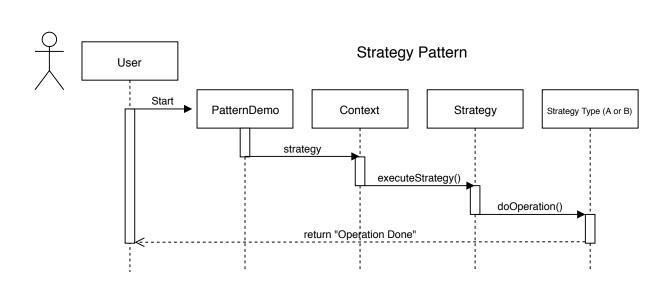


https://www.tutorialspoint.com/design\_pattern/strategy\_pattern.htm https://www.tutorialspoint.com/design\_pattern/observer\_pattern.htm https://www.geeksforgeeks.org/observer-pattern-set-1-introduction/

**Observer Pattern** User Start PatternDemo Subject Observer Observer A Observer B setState() notifyAllObservers() update() update() "Updated!"



- a) Velocity \* Focus Factor = Estimated Velocity Focus Factor = (100% + 100% + 100% + 100% + 80%) / 300% = 160%Estimated Velocity = 32 \* 1.6 = 51.2
- b) Allow the team to estimate the time it will take to complete the highest priority task. Take (Estimated Story Points / Estimated Time) for the task to get Estimated Velocity / Capacity (Focus Factor) Could also consider that the industry standard is ≈70% and start with that
- c) Simply use the first story point guess from each team member and average them. This is probably not better than Planning Poker as there may be variables that not all team members have considered leading to inaccurate estimates. d)

e) right left Node + left: Node + right: Node class Node{ //Integer to be stored in each Node int key; + key: int //Creates the left & right child (if exists) Node left; Node right; //Constructor for creating a Node Classname public Node(int var) { key = var; + parent: Node left = right = null; } + key: int 0,1 parent g) 1 -list EmployeeRecords LinkedList 1 + name: String -firstItem -list -nextItem + firstItem(item: EmployeeRecords) + snn: int + lastItem(Item: EmployeeRecords) -lastItem + salary: int -list +Contains(item: EmployeeRecords public class LinkedList {

//Creates an instance of the first/last items in the list

//Contains a name, Social Security Number, and a Salary

EmployeeRecords(String n, int ss, int s){

salary = s;
//Resets the nextItem to null

//Creates an instance of the next item in the list

//Constructor to create the object to be linked into the list

EmployeeRecords firstItem; EmployeeRecords lastItem;

EmployeeRecords nextItem;

nextItem = null;

class EmployeeRecords{

name = n; ssn = ss;

String name; int ssn; int salary;

} }