Exercise 2

- a) . Last sprint: 3 man team
 - 32 story points
 - 45 man days

Focus factor: 32/45 = 71%

Next sprint: 5 man team, 1 can only work 80% time

- -45 + 27 = 72 man days
- 72 man days * 71% focus factor = 51.12 story points

Estimated Velocity: 51.12 story points

b). You would estimate the focus factor by estimating the Story points and Man days within the group.

Story points: Determine the story points by sizing the project by considering

- The amount of work to do
- The complexity of the work
- Risk of the work
- Time of completion

Estimate the actual velocity (story points) then divide that by the estimated man hours of the group.

c). Firstly the team would have to establish a baseline story. From their the team would reference each potential story from the baseline and decide how many points that story is. I believe that this method of estimating story points is worse than the poker method.

```
e). public class BinaryTree
  private Node root;
  public BinaryTree()
     root = null;
  }
  public void add(int current) {
     Node newNode = new Node(current);
     if(root == null) {
       root = newNode;
     } else {
       Node current = root;
       Node parent;
       while (true) {
          parent = current;
          if (current < current.getcurrent()) {</pre>
             current = current.getLeft();
             if (current == null) {
                parent.setLeft(newNode);
               return;
             }
          }
          else {
             current = current.getRight();
             if (current == null)
               parent.setRight(newNode);
               return;
             }
          }
```

```
}
  public void delete(int current) {
  }
  public void print() {
public class Node
  private int current;
  private Node left, right;
  public Node(int current) {
     this.current = current;
     left = null;
     right = null;
  }
}
```

```
g). public class Node {
    private int salary, SSN;
    private String name;
    private Node next;
    Node(int s, int SS, String n){
        salary = s;
        name = n;
        SSN = SS;
        next = null;
    }
}
public class LL {
    private Node head;
}
```