CSSE 220 – Object-Oriented Software Development
Rose-Hulman Institute of Technology

Worksheet 23

Name (Print):⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯   Section:⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯

1. Recursive Tracing sumSquares(3)

```
/**
 * Returns 1^2 + 2^2+ ... + n^2
 */
public int sumSquares(int n) {
    if (n <= 0) {
        return 0;
    }
    return n*n + sumSquares(n - 1);
}
```

2. LinkedList: A _____ data structure made of _____

3. Each Node has : 1) _____ and 2) _____

4. Draw a schematic representation of LinkedList

5. Sketch a LinkedList$< String >$ containing the strings "two", "more", and "weeks".