

SimulationResult.java

```

1 //*****
2 //
3 // File:    SimulationResult.java
4 // Package: ---
5 // Unit:    Class SimulationResult
6 //
7 //*****
8
9 /**
10  * Class SimulationResult is designed to be just a data container for recording
11  * the results of running <I>n</I> simulations given a number of space stations
12  *
13  * @author Jini Ford (jhf3617)
14  * @version 4-4-2015
15  */
16 public class SimulationResult {
17
18     /**
19      * the percentage of connected networks generated
20      */
21     public final double percentConnected;
22
23     /**
24      * the average power needed by the stations to transmit to any other station
25      * in each network
26      */
27     public final double averagePower;
28
29     /**
30      * the number of vertices (i.e. nodes or space stations)
31      */
32     public final int v;
33
34     /**
35      * the number of trials that were run to generate this result
36      */
37     public final int trials;
38
39     /**
40      * Construct a SimulationResult
41      * @param v number of space stations
42      * @param trials number of trials that were run
43      * @param connectedCount the number of connected networks produced
44      * @param averagePower the average power needed by each space station to
45      *      transmit messages to any other space station in the network
46      */
47     public SimulationResult(int v, int trials, int connectedCount,
48         double averagePower) {
49         this.v = v;
50         this.trials = trials;
51         this.percentConnected = connectedCount / (double) trials;
52         this.averagePower = averagePower;
53     }
54 }
55

```