

## RandomEngine.java

```

1 package xyz.amtstl.soup.engine;
2
3 import java.util.ArrayList;
4
5
6
7 public class RandomEngine {
8     private static List<Integer> numbers = new ArrayList<Integer>();
9     private static Random rnd = new Random();
10
11     public RandomEngine() {
12         updateNumbers(1500);
13     }
14
15     /**
16      * Gets a number from within a specific range
17      * @param min minimum number
18      * @param max maximum number
19      * @return
20      */
21     public int getNumberRange(int min, int max) {
22         if (min == max) {
23             return max;
24         }
25
26         for (int e = 0; e < numbers.size(); e++) {
27             if (numbers.get(e) < max && min < numbers.get(e)) {
28                 return numbers.get(e);
29             }
30         }
31         return 0;
32     }
33
34     /**
35      * Gets the current Random instance
36      * @return the instance
37      */
38     public Random getInstance() {
39         return rnd;
40     }
41
42     /**
43      * Updates number collection
44      * @param count the maximum index value
45      */
46     private static void updateNumbers(int count) {
47         for (int f = 0; f <= count; f++) {
48             int tempnum = rnd.nextInt(1000);
49
50             numbers.add(tempnum);
51         }
52     }
53
54     /**
55      * Prints the number collection to the user
56      */
57     public void iterateNumberLibrary() {
58         for (int e : numbers) {
59             System.out.print(String.valueOf(e) + "\n");

```

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```
60     }
61 }
62
63 /**
64  * Gets the current number collection
65  * @return the number collection
66  */
67 public List<Integer> getNumberSelection() {
68     return numbers;
69 }
70 }
```