NNCalcModel.java

```
1import components.naturalnumber.NaturalNumber;
 2
3 /**
 4 * Model interface.
5 *
 6 * The Natural Number Calculator model consists of the top and bottom operands
 7 * (which have only getter methods).
8 *
9 * @author Bruce W. Weide
10 *
11 * @mathmodel 
12 * type NNCalcModel is modeled by
13 * (top: NATURAL_NUMBER,
14 * bottom: NATURAL_NUMBER)
15 * 
16 * @initially 
17 * ():
18 * ensures
19 * this = (0, 0)
20 * 
21 */
22 public interface NNCalcModel {
23
24
      * Reports top operand.
25
26
      * @return this.top
27
28
      * @aliases reference returned by {@code top}
29
      * @ensures top = this.top
30
31
      NaturalNumber top();
32
33
      * Reports bottom operand.
34
35
      * @return this.bottom
36
37
      * @aliases reference returned by {@code bottom}
38
       * @ensures bottom = this.bottom
39
40
      NaturalNumber bottom();
41
42 }
43
```