

# NNCalcView.java

```

1 import java.awt.event.ActionListener;
4
5 /**
6  * View interface.
7  *
8  * @author Bruce W. Weide
9  */
10 public interface NNCalcView extends ActionListener {
11
12     /**
13      * Register argument as observer/listener of this; this must be done first,
14      * before any other methods of this class are called.
15      *
16      * @param controller
17      *         controller to register
18      */
19     void registerObserver(NNCalcController controller);
20
21     /**
22      * Updates top operand display based on NaturalNumber provided as argument.
23      *
24      * @param n
25      *         new value of top operand display
26      */
27     void updateTopDisplay(NaturalNumber n);
28
29     /**
30      * Updates bottom operand display based on NaturalNumber provided as
31      * argument.
32      *
33      * @param n
34      *         new value of bottom operand display
35      */
36     void updateBottomDisplay(NaturalNumber n);
37
38     /**
39      * Updates display of whether subtract operation is allowed.
40      *
41      * @param allowed
42      *         true iff subtract is allowed
43      */
44     void updateSubtractAllowed(boolean allowed);
45
46     /**
47      * Updates display of whether divide operation is allowed.
48      *
49      * @param allowed
50      *         true iff divide is allowed
51      */
52     void updateDivideAllowed(boolean allowed);
53
54     /**
55      * Updates display of whether power operation is allowed.
56      *
57      * @param allowed
58      *         true iff power is allowed
59      */

```

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```
60 void updatePowerAllowed(boolean allowed);
61
62 /**
63  * Updates display of whether root operation is allowed.
64  *
65  * @param allowed
66  *       true iff root is allowed
67  */
68 void updateRootAllowed(boolean allowed);
69
70 }
71
```