

# LogicController.java

```
1 package xyz.amtstl.soup.logic;
2
3 import java.util.ArrayList;
4
5
6
7
8
9
10
11
12
13
14
15 /**
16  * This is the main logic controller that handles all operations
17  * and martials necessary controllers
18  * @author Alexander C Migala
19  *
20  */
21 public class LogicController {
22
23     /**
24      * Main variable where the parsed data is
25      */
26     public static List<String> ns;
27
28     public static boolean ifState = false;
29
30     /**
31      * Last result outputted by applicable functions. This gets used by the store function
32      */
33     public static float LastResult = 0;
34
35     /**
36      * Index cache for the main loop
37      */
38     public static int index;
39
40     /**
41      * Variable that locks the index
42      */
43     private static boolean LockIndex = false;
44
45     /**
46      * Current RandomEngine thread
47      */
48     private static RandomEngine rnd;
49
50     /**
51      * Breaker thread
52      */
53     public static boolean isBreak = false;
54
55     /**
56      * Constructor takes no args
57      */
58     public LogicController() {
59         ns = new ArrayList<String>();
60         rnd = new RandomEngine();
61         VariableHandler.initiateVar();
62     }
63
64     /**
65      * MATH OPERATSystem.outNS AND CONTROLS
66      *
67      */
68 }
```

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```

68
69  /**
70   * Adds numbers.
71   * Note that the comments are depreciated ways of crunching
72   * @param i index to be passed to parser
73   * @param cache line of code from main loop
74   * @throws NumberFormatException
75   * @throws SoupVariableException
76   * @throws SoupSyntaxException
77   */
78   public static void soupAdd(int i, String cache) throws NumberFormatException,
SoupVariableException, SoupSyntaxException {
79       ns = Parser.parse(i, cache);
80       Validator.validateNumbers(ns);
81
82       if (!LockIndex)
83           index = Parser.inx;
84
85       float out = Float.parseFloat(ns.get(0));
86       for (int e = 1; e < ns.size(); e++) {
87           out += Float.parseFloat(ns.get(e));
88       }
89
90       LastResult = out;
91       System.out.println(LastResult);
92       HTMLGen.totalOutputs.add(LastResult);
93   }
94
95  /**
96   * Subtracts numbers
97   * @param i index to be passed to parser
98   * @param cache line of code from main loop
99   * @throws NumberFormatException
100   * @throws SoupVariableException
101   * @throws SoupSyntaxException
102   */
103   public static void soupSubtract(int i, String cache) throws NumberFormatException,
SoupVariableException, SoupSyntaxException {
104       ns = Parser.parse(i, cache);
105       Validator.validateNumbers(ns);
106
107       if (!LockIndex)
108           index = Parser.inx;
109
110       float out = Float.parseFloat(ns.get(0));
111       for (int e = 1; e < ns.size(); e++) {
112           out -= Float.parseFloat(ns.get(e));
113       }
114
115       LastResult = out;
116       System.out.println(LastResult);
117       HTMLGen.totalOutputs.add(LastResult);
118   }
119
120  /**
121   * Multiplies numbers
122   * @param i index to be passed to parser

```

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123  * @param cache line of code from main loop
124  * @throws NumberFormatException
125  * @throws SoupVariableException
126  * @throws SoupSyntaxException
127  */
128  public static void soupMultiply(int i, String cache) throws NumberFormatException,
    SoupVariableException, SoupSyntaxException {
129      ns = Parser.parse(i, cache);
130      Validator.validateNumbers(ns);
131
132      if (!LockIndex)
133          index = Parser.inx;
134
135      float out = Float.parseFloat(ns.get(0));
136      for (int e = 1; e < ns.size(); e++) {
137          out *= Float.parseFloat(ns.get(e));
138      }
139
140      LastResult = out;
141      System.out.println(LastResult);
142      HTMLGen.totalOutputs.add(LastResult);
143  }
144
145  /**
146   * Divides numbers
147   * @param i index to be passed to parser
148   * @param cache line of code from main loop
149   * @throws NumberFormatException
150   * @throws SoupVariableException
151   * @throws SoupSyntaxException
152   */
153  public static void soupDivide(int i, String cache) throws NumberFormatException,
    SoupVariableException, SoupSyntaxException {
154      ns = Parser.parse(i, cache);
155      Validator.validateNumbers(ns);
156
157      if (!LockIndex)
158          index = Parser.inx;
159
160      float out = Float.parseFloat(ns.get(0));
161      for (int e = 1; e < ns.size(); e++) {
162          out /= Float.parseFloat(ns.get(e));
163      }
164
165      LastResult = out;
166      System.out.println(LastResult);
167      HTMLGen.totalOutputs.add(LastResult);
168  }
169
170  /**
171   * Raises numbers per exponent
172   * @param i index to be passed to parser
173   * @param cache line of code from main loop
174   * @throws NumberFormatException
175   * @throws SoupVariableException
176   * @throws SoupSyntaxException
177   */

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```

178     public static void soupPow(int i, String cache) throws NumberFormatException,
        SoupVariableException, SoupSyntaxException {
179         ns = Parser.parse(i, cache);
180         Validator.validateNumbers(ns);
181
182         if (!LockIndex)
183             index = Parser.inx;
184
185         System.out.println((float)Math.pow(Float.parseFloat(ns.get(0)),
        Float.parseFloat(ns.get(1))));
186         LastResult = (float)Math.pow(Float.parseFloat(ns.get(0)),
        Float.parseFloat(ns.get(1))));
187         HTMLGen.totalOutputs.add(LastResult);
188     }
189
190     /**
191     * Logarithms
192     * @param i index to be passed to parser
193     * @param cache line of code from main loop
194     * @throws NumberFormatException
195     * @throws SoupVariableException
196     * @throws SoupSyntaxException
197     */
198     public static void soupLog(int i, String cache) throws NumberFormatException,
        SoupVariableException, SoupSyntaxException {
199         ns = Parser.parse(i, cache);
200         Validator.validateNumbers(ns);
201
202         if (!LockIndex)
203             index = Parser.inx;
204
205         double ex = Double.parseDouble(ns.get(0));
206         /*double base = Double.parseDouble(ns.get(1));*/
207
208         /*System.out.println(String.valueOf((Math.log(ex)/(Math.log(base)))));*/
209         LastResult = (float)(Math.Log10(ex));
210         System.out.println(LastResult);
211         HTMLGen.totalOutputs.add(LastResult);
212     }
213
214     /**
215     * Applies trigonometric functions
216     * @param i index to be passed to parser
217     * @param cache line of code from main loop
218     * @throws NumberFormatException
219     * @throws SoupVariableException
220     * @throws SoupSyntaxException
221     */
222     public static void soupTrig(int i, String cache) throws NumberFormatException,
        SoupVariableException, SoupSyntaxException {
223         ns = Parser.parse(i, cache);
224
225         List<String> validation = new ArrayList<String>();
226         for (int e = 1; e < ns.size(); e++) {
227             validation.add(ns.get(e));
228         }
229         Validator.validateNumbers(validation);

```

```

230
231     if (!LockIndex)
232         index = Parser.inx;
233
234     String condition = ns.get(0);
235
236     /*
237     * Add the arc and inverse side of things
238     */
239     switch (condition) {
240     case "s" : // sine
241         System.out.println(Float.valueOf((float)
242 (Math.sin(Double.parseDouble(ns.get(1))))));
243         LastResult = (float)(Math.sin(Double.parseDouble(ns.get(1))));
244         break;
245     case "c" : // cosine
246         System.out.println(Float.valueOf((float)
247 (Math.cos(Double.parseDouble(ns.get(1))))));
248         LastResult = (float)(Math.cos(Double.parseDouble(ns.get(1))));
249         break;
250     case "t" : // tangent
251         System.out.println(Float.valueOf((float)
252 (Math.tan(Double.parseDouble(ns.get(1))))));
253         LastResult = (float)(Math.tan(Double.parseDouble(ns.get(1))));
254         break;
255     case "arcs" : // arcsine
256         LastResult = (float)(Math.asin(Double.parseDouble(ns.get(1))));
257         System.out.println(LastResult);
258         break;
259     case "arcc" : // arccosine
260         LastResult = (float)(Math.acos(Double.parseDouble(ns.get(1))));
261         System.out.println(LastResult);
262         break;
263     case "arct" : // arctangent
264         LastResult = (float)(Math.atan(Double.parseDouble(ns.get(1))));
265         System.out.println(LastResult);
266         break;
267     default :
268         throw new SoupSyntaxException(cache.charAt(i+2), i);
269     }
270     HTMLGen.totalOutputs.add(LastResult);
271 }
272
273 /**
274 * Finds the area per the parameters
275 * @param i index to be passed to parser
276 * @param cache line of code from main loop
277 * @throws NumberFormatException
278 * @throws SoupVariableException
279 * @throws SoupSyntaxException
280 */
281 public static void soupArea(int i, String cache) throws NumberFormatException,
282 SoupVariableException, SoupSyntaxException {
283     ns = Parser.parse(i, cache);
284
285     List<String> validation = new ArrayList<String>();
286     for (int e = 1; e < ns.size(); e++) {

```

```

283         validation.add(ns.get(e));
284     }
285     Validator.validateNumbers(validation);
286
287     if (!LockIndex)
288         index = Parser.inx;
289
290     String condition = ns.get(0);
291
292     switch (condition) {
293     case "s" : // square
294         LastResult = Float.parseFloat(ns.get(1)) * Float.parseFloat(ns.get(2));
295         System.out.println(LastResult);
296         break;
297     case "tri" : // triangle
298         LastResult = Float.parseFloat(ns.get(1)) * Float.parseFloat(ns.get(2))/2;
299         System.out.println(LastResult);
300         break;
301     case "tra" : // trapezoid
302         float n1 = Float.parseFloat(ns.get(1));
303         float n2 = Float.parseFloat(ns.get(2));
304         float n3 = Float.parseFloat(ns.get(3));
305         LastResult = ((n1 + n2)/2) * n3;
306         System.out.println(LastResult);
307         break;
308     default :
309         throw new SoupSyntaxException(cache.charAt(i+2), i);
310     }
311     HTMLGen.totalOutputs.add(LastResult);
312 }
313
314 /**
315  * Absolute values a number
316  * @param i index to be passed to parser
317  * @param cache line of code from main loop
318  * @throws NumberFormatException
319  * @throws SoupVariableException
320  * @throws SoupSyntaxException
321  */
322 public static void soupAbs(int i, String cache) throws NumberFormatException,
    SoupVariableException, SoupSyntaxException {
323     ns = Parser.parse(i, cache);
324     Validator.validateNumbers(ns);
325
326     if (!LockIndex)
327         index = Parser.inx;
328
329     LastResult = Math.abs(Float.parseFloat(ns.get(0)));
330     System.out.println(String.valueOf(LastResult));
331     HTMLGen.totalOutputs.add(LastResult);
332 }
333
334 /**
335  * Rounds a number using Java math.round()
336  * @param i index to be passed to parser
337  * @param cache line of code from main loop
338  * @throws NumberFormatException

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339     * @throws SoupVariableException
340     * @throws SoupSyntaxException
341     */
342     public static void soupRound(int i, String cache) throws NumberFormatException,
        SoupVariableException, SoupSyntaxException {
343         ns = Parser.parse(i, cache);
344         Validator.validateNumbers(ns);
345
346         if (!LockIndex)
347             index = Parser.inx;
348
349         LastResult = (float)Math.round(Float.valueOf(ns.get(0)));
350         System.out.println(LastResult);
351         HTMLGen.totalOutputs.add(LastResult);
352     }
353
354     /**
355     * Square Roots a number
356     * @param i index to be passed to parser
357     * @param cache line of code from main loop
358     * @throws NumberFormatException
359     * @throws SoupVariableException
360     * @throws SoupSyntaxException
361     */
362     public static void soupSquareRoot(int i, String cache) throws NumberFormatException,
        SoupVariableException, SoupSyntaxException {
363         ns = Parser.parse(i, cache);
364         Validator.validateNumbers(ns);
365
366         if (!LockIndex)
367             index = Parser.inx;
368
369         LastResult = (float)Math.sqrt(Double.parseDouble(ns.get(0)));
370         System.out.println(LastResult);
371         HTMLGen.totalOutputs.add(LastResult);
372     }
373
374     /**
375     * Will spawn a random number in lastResult between the bounds
376     * @param i index to be passed to parser
377     * @param cache line of code from main loop
378     * @throws NumberFormatException
379     * @throws SoupVariableException
380     * @throws SoupSyntaxException
381     */
382     public static void soupRandomNum(int i, String cache) throws NumberFormatException,
        SoupVariableException, SoupSyntaxException {
383         ns = Parser.parse(i, cache);
384         Validator.validateNumbers(ns);
385
386         if (!LockIndex)
387             index = Parser.inx;
388
389         int param1 = Integer.parseInt(ns.get(0));
390         int param2 = Integer.parseInt(ns.get(1));
391
392         LastResult = rnd.getNumberRange(param1, param2);

```

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393     System.out.println(LastResult);
394     HTMLGen.totalOutputs.add(LastResult);
395 }
396
397 /*
398  * FUNCTIONALITY CONTROLS
399  *
400  */
401
402 /**
403  * Prints some text per args
404  * @param i index to be passed to parser
405  * @param cache line of code from main loop
406  * @throws NumberFormatException
407  * @throws SoupVariableException
408  * @throws SoupSyntaxException
409  */
410 public static void soupPrint(int i, String cache) throws NumberFormatException,
SoupVariableException, SoupSyntaxException {
411     ns = Parser.parse(i, cache);
412
413     if (!LockIndex)
414         index = Parser.inx;
415
416     List<String> validation = new ArrayList<String>();
417     for (int e = 1; e < ns.size(); e++) {
418         validation.add(ns.get(e));
419     }
420     Validator.validateNumbers(validation);
421
422     switch (ns.get(1)) {
423     case "0" :
424         System.out.print(ns.get(0));
425         break;
426     case "1" :
427         System.out.println(ns.get(0));
428         break;
429     }
430 }
431
432 /**
433  * Prints line to the user
434  * @deprecated
435  * @param i
436  * @param cache
437  * @throws NumberFormatException
438  * @throws SoupVariableException
439  * @throws SoupSyntaxException
440  */
441 public static void soupPrintLine(int i, String cache) throws NumberFormatException,
SoupVariableException, SoupSyntaxException {
442     ns = Parser.parse(i, cache);
443
444     if (!LockIndex)
445         index = Parser.inx;
446     System.out.println(ns.get(0));
447 }

```



```

448
449  /**
450   * Checks two numbers and prints whether they're true or false
451   * @param i index to be passed to parser
452   * @param cache line of code from main loop
453   * @throws NumberFormatException
454   * @throws SoupVariableException
455   * @throws SoupSyntaxException
456   */
457  public static void soupIf(int i, String cache) throws NumberFormatException,
SoupVariableException, SoupSyntaxException {
458      ns = Parser.parse(i, cache);
459      Validator.validateNumbers(ns);
460
461      if (!LockIndex)
462          index = Parser.inx;
463
464      //System.out.println(numbers[0] + " " + numbers[1]);
465
466      float n1 = Float.parseFloat(ns.get(0));
467      float n2 = Float.parseFloat(ns.get(1));
468
469      if (n1 == n2) {
470          ifState = true;
471          System.out.println("True");
472      }
473      else {
474          ifState = false;
475          System.out.println("False");
476      }
477  }
478
479  /**
480   * Checks to see if the first number is less than the second number
481   * @param i index to be passed to parser
482   * @param cache line of code from main loop
483   * @throws NumberFormatException
484   * @throws SoupVariableException
485   * @throws SoupSyntaxException
486   */
487  public static void soupIfLessThan(int i, String cache) throws NumberFormatException,
SoupVariableException, SoupSyntaxException {
488      ns = Parser.parse(i, cache);
489      Validator.validateNumbers(ns);
490
491      if (!LockIndex)
492          index = Parser.inx;
493
494      //System.out.println(numbers[0] + " " + numbers[1]);
495
496      float n1 = Float.parseFloat(ns.get(0));
497      float n2 = Float.parseFloat(ns.get(1));
498
499      if (n1 < n2) {
500          ifState = true;
501          System.out.println("True");
502      }

```

```

503     else {
504         ifState = false;
505         System.out.println("False");
506     }
507 }
508
509 /**
510  * Checks to see if the first number is greater than the second number
511  * @param i index to be passed to parser
512  * @param cache line of code from main loop
513  * @throws NumberFormatException
514  * @throws SoupVariableException
515  * @throws SoupSyntaxException
516  */
517 public static void soupIfGreaterThan(int i, String cache) throws NumberFormatException,
SoupVariableException, SoupSyntaxException {
518     ns = Parser.parse(i, cache);
519     Validator.validateNumbers(ns);
520
521     if (!LockIndex)
522         index = Parser.inx;
523
524     //System.out.println(numbers[0] + " " + numbers[1]);
525
526     float n1 = Float.parseFloat(ns.get(0));
527     float n2 = Float.parseFloat(ns.get(1));
528
529     if (n1 > n2) {
530         ifState = true;
531         System.out.println("True");
532     }
533     else {
534         ifState = false;
535         System.out.println("False");
536     }
537 }
538
539 /**
540  * This is the handler that marshals the the HTML generator
541  * @param i index to be passed to parser
542  * @param cache line of code from main loop
543  * @throws NumberFormatException
544  * @throws SoupVariableException
545  * @throws SoupSyntaxException
546  */
547 public static void soupHTMLHandler(int i, String cache) throws NumberFormatException,
SoupVariableException, SoupSyntaxException {
548     ns = Parser.parse(i, cache);
549
550     if (!LockIndex)
551         index = Parser.inx;
552     try {
553         HTMLGen.generateOutputDocumentation(ns.get(0), ns.get(1));
554     } catch (Exception e) {
555         // TODO Auto-generated catch block
556         e.printStackTrace();
557     }

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558     }
559
560     /**
561      * Extension of if function
562      * @param i index to be passed to parser
563      * @param cache line of code from main loop
564      * @throws NumberFormatException
565      * @throws SoupVariableException
566      * @throws SoupSyntaxException
567      * @throws SoupFunctionNotDeclaredException
568      */
569     public static void soupIfDo(int i, String cache) throws NumberFormatException,
        SoupVariableException, SoupSyntaxException, SoupFunctionNotDeclaredException {
570         ns = Parser.parseInternalFunctions(i, cache);
571         index = Parser.inx;
572
573         String True = ns.get(0);
574         String False = ns.get(1);
575         LockIndex = true;
576
577         if (ifState) {
578             FunctionInterpolator.interpolateString(True);
579         }
580         else {
581             FunctionInterpolator.interpolateString(False);
582         }
583
584         LockIndex = false;
585
586         ifState = false;
587     }
588
589     /**
590      * Retrieves a variable from VariableHandler
591      * @param i index to be passed to parser
592      * @param cache line of code from main loop
593      * @throws NumberFormatException
594      * @throws SoupVariableException
595      * @throws SoupSyntaxException
596      */
597     public static void soupRetrieveVar(int i, String cache) throws NumberFormatException,
        SoupVariableException, SoupSyntaxException {
598         ns = Parser.parse(i, cache);
599         Validator.validateNumbers(ns);
600
601         if (!LockIndex)
602             index = Parser.inx;
603
604         float ret = VariableHandler.getVar(Integer.parseInt(ns.get(0)));
605         System.out.println(ret);
606     }
607
608     /**
609      * Stores a variable
610      * @param i index to be passed to parser
611      * @param cache line of code from main loop
612      * @throws NumberFormatException

```

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```

613     * @throws SoupVariableException
614     * @throws SoupSyntaxException
615     */
616     public static void soupStoreVar(int i, String cache) throws NumberFormatException,
        SoupVariableException, SoupSyntaxException {
617         ns = Parser.parse(i, cache);
618         Validator.validateNumbers(ns);
619
620         if (!LockIndex)
621             index = Parser.inx;
622
623         VariableHandler.insertVar(LastResult, Integer.parseInt(ns.get(0)));
624     }
625
626     /**
627     * Stores the user input
628     * @param i index to be passed to parser
629     * @param cache line of code from main loop
630     * @throws NumberFormatException
631     * @throws SoupVariableException
632     * @throws SoupSyntaxException
633     */
634     public static void soupStoreUserIn(int i, String cache) throws NumberFormatException,
        SoupVariableException, SoupSyntaxException {
635         ns = Parser.parse(i, cache);
636
637         HTMLGen.questionStrings.add(ns.get(0));
638         List<String> validation = new ArrayList<String>();
639         for (int e = 1; e < ns.size(); e++) {
640             validation.add(ns.get(e));
641         }
642         Validator.validateNumbers(validation);
643
644         if (!LockIndex)
645             index = Parser.inx;
646
647         System.out.println(ns.get(0));
648         Scanner s = new Scanner(System.in);
649
650         if (s.hasNextFloat()) {
651             LastResult = s.nextFloat();
652             VariableHandler.insertVar(LastResult, Integer.parseInt(ns.get(1)));
653         }
654
655         else {
656             switch (s.nextLine()) {
657                 case "`" :
658                     VariableHandler.insertVar(1, 100);
659                     break;
660                 case "." :
661                     VariableHandler.insertVar(1, 101);
662                     break;
663             }
664         }
665     }
666
667     /**

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668     * Stores a single variable
669     * @param i index to be passed to parser
670     * @param cache line of code from main loop
671     * @throws NumberFormatException
672     * @throws SoupVariableException
673     * @throws SoupSyntaxException
674     */
675     public static void soupStoreSingle(int i, String cache) throws NumberFormatException,
        SoupVariableException, SoupSyntaxException {
676         ns = Parser.parse(i, cache);
677         Validator.validateNumbers(ns);
678
679         if (!LockIndex)
680             index = Parser.inx;
681
682         VariableHandler.insertVar(Float.parseFloat(ns.get(0)), Integer.valueOf(ns.get(1)));
683     }
684
685     /**
686     * Executes a new for loop on main thread
687     * @param i index to be passed to parser
688     * @param cache line of code from main loop
689     * @throws NumberFormatException
690     * @throws SoupVariableException
691     * @throws SoupSyntaxException
692     * @throws SoupFunctionNotDeclaredException
693     */
694     public static void soupForLoop(int i, String cache) throws NumberFormatException,
        SoupVariableException, SoupSyntaxException, SoupFunctionNotDeclaredException {
695         ns = Parser.parse(i, cache);
696
697         if (!LockIndex)
698             index = Parser.inx + 1;
699         Looper.execNewForLoop((int)Integer.valueOf((int) Float.parseFloat(ns.get(0))),
        (int)Integer.valueOf((int) Float.parseFloat(ns.get(1))), cache, " ");
700     }
701
702     /**
703     * Decrementing For Loop
704     * @param i index to be passed to parser
705     * @param cache line of code from main loop
706     * @throws NumberFormatException
707     * @throws SoupVariableException
708     * @throws SoupSyntaxException
709     * @throws SoupFunctionNotDeclaredException
710     */
711     public static void soupForLoopDecre(int i, String cache) throws NumberFormatException,
        SoupVariableException, SoupSyntaxException, SoupFunctionNotDeclaredException {
712         ns = Parser.parse(i, cache);
713
714         if (!LockIndex)
715             index = Parser.inx + 1;
716
717
718         if (isBreak) {
719             isBreak = false;
720         }

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721     Looper.execNewForLoopDecr((int)Integer.valueOf((int) Float.parseFloat(ns.get(0))),
    (int)Integer.valueOf((int) Float.parseFloat(ns.get(1))), cache, " ");
722 }
723
724 /**
725  * Does a while loop
726  * @param i index to be passed to parser
727  * @param cache line of code from main loop
728  * @throws SoupSyntaxException
729  * @throws NumberFormatException
730  * @throws SoupVariableException
731  * @throws SoupFunctionNotDeclaredException
732  */
733 public static void soupWhileLoop(int i, String cache) throws SoupSyntaxException,
    NumberFormatException, SoupVariableException, SoupFunctionNotDeclaredException {
734     ns = Parser.parse(i, cache);
735
736     if (!LockIndex)
737         index = Parser.inx;
738
739     Looper.execNewWhileLoop(cache);
740 }
741
742 /**
743  * Does a while not loop
744  * @param i index to be passed to parser
745  * @param cache line of code from main loop
746  * @throws SoupSyntaxException
747  * @throws NumberFormatException
748  * @throws SoupVariableException
749  * @throws SoupFunctionNotDeclaredException
750  */
751 public static void soupWhileNotLoop(int i, String cache) throws SoupSyntaxException,
    NumberFormatException, SoupVariableException, SoupFunctionNotDeclaredException {
752     ns = Parser.parse(i, cache);
753
754     if (!LockIndex)
755         index = Parser.inx;
756
757     Looper.execNewWhileNotLoop(cache);
758 }
759
760 /**
761  * Refreshes Numbers
762  * @deprecated
763  * @param i index to be passed to parser
764  * @param cache line of code from main loop
765  * @throws NumberFormatException
766  * @throws SoupVariableException
767  * @throws SoupSyntaxException
768  */
769 public static void soupRefreshNumbers(int i, String cache) throws NumberFormatException,
    SoupVariableException, SoupSyntaxException {
770     ns = Parser.parse(i, cache);
771     //Validator.validateNumbers(ns);
772     if (!LockIndex)
773         index = Parser.inx;

```

LogicController.java

```

774     }
775
776     /**
777      * Stores a function
778      * @param i index to be passed to parser
779      * @param cache line of code from main loop
780      * @throws NumberFormatException
781      * @throws SoupVariableException
782      * @throws SoupSyntaxException
783      */
784     public static void soupStoreFunction(int i, String cache) throws NumberFormatException,
SoupVariableException, SoupSyntaxException {
785         ns = Parser.parseInternalFunctions(i, cache);
786
787         if (!LockIndex) {
788             index = Parser.inx;
789         }
790
791         String function = ns.get(0);
792         int point = Integer.valueOf(ns.get(1));
793
794         VariableHandler.stringVars.set(point, function);
795     }
796
797     /**
798      * Gets a function and executes it
799      * @param i index to be passed to parser
800      * @param cache line of code from main loop
801      * @throws NumberFormatException
802      * @throws SoupVariableException
803      * @throws SoupSyntaxException
804      * @throws SoupFunctionNotDeclaredException
805      */
806     public static void soupGetFunction(int i, String cache) throws NumberFormatException,
SoupVariableException, SoupSyntaxException, SoupFunctionNotDeclaredException {
807         ns = Parser.parse(i, cache);
808
809         if (!LockIndex) {
810             index = Parser.inx;
811         }
812
813         int point = Integer.valueOf(ns.get(0));
814
815         if (VariableHandler.stringVars.get(point) == "") {
816             throw new SoupFunctionNotDeclaredException(point);
817         }
818         else {
819             FunctionInterpolator.interpolateString(VariableHandler.stringVars.get(point));
820         }
821     }
822
823     /**
824      * Breaks a current loop
825      */
826     public static void soupBreakLoop() {
827         if (isBreak == false) {
828             isBreak = true;

```

LogicController.java

```
829         index += 1;
830     }
831     else {
832         isBreak = false;
833     }
834 }
835
836 public static void setBreak(boolean condition) {
837     isBreak = condition;
838 }
839
840 /**
841  * Parses comments
842  * @param i index to be passed to parser
843  * @param cache line of code from main loop
844  * @throws NumberFormatException
845  * @throws SoupVariableException
846  */
847 public static void soupComment(int i, String cache) throws NumberFormatException,
    SoupVariableException {
848     index = cache.length();
849 }
850 }
```