```
1 //
 2 //
       This is the CPTN230 Al Class Source Code File
 3 //
 4 //
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 5 //
       30 August 2008
 6 //
 7 //
 8
 9 #include "CPTN230A1class.h"
10
11 Numbers::Numbers()
12 {
13
       int i;
14
      total = 0;
1.5
       average = 0;
16
       for (i = 0; i < 5; i++)
17
       {
18
           nums[i] = 0;
19
       }
20 }
2.1
22 void Numbers::Display_the_numbers(void)
23 {
24
       for (int k = 0; k < MAX SIZE; k++)
25
           cout << "Number " << k + 1 << " is " << nums[k] << '.' << endl;</pre>
2.6
27
       }
28
       return;
29 }
30
31 int Numbers::Get_an_int(int location)
32 {
33
       return nums[location];
34 }
35
36 void Numbers::Set_an_int(int location, int value)
37 {
38
       nums[location] = value;
39
       return;
40 }
41
42 void Numbers::Do the math(void)
43 {
44
       total = 0;
45
       for (int k = 0; k < MAX SIZE; k++)
46
47
           total = total + nums[k];
48
49
       average = (double) total / MAX_SIZE;
50
       return;
51 }
53 void Numbers::Display the results(void)
54 {
       cout << "The total is "</pre>
55
56
            << total
            << " and the average is "
57
58
            << flush;
59
       if (total > 99999)
60
           cout.precision(7);
61
       if (total > 9999)
62
           cout.precision(6);
63
       else if (total > 999)
64
           cout.precision(5);
       else if (total > 99)
65
66
           cout.precision(4);
```

```
67
     else
         cout.precision(3);
68
69
     cout << showpoint
         << average
70
71
          << '.'
72
          << endl;
73
     return;
74 }
75
```