

ReviewProblems.java

Monday, November 05, 2012

```
7:56 AM 1 public class ReviewProblems {
2     public static void main(String[] args) {
3         int total=0, MAX=0, length=0, MIN_LENGTH=0, count=0, sum=0;
4
5         // 3.2 What's wrong?
6         if (total == MAX) {
7             if (total < sum)
8                 System.out.println ("total == MAX and is < sum.");
9         }
10        else
11            System.out.println ("total is not equal to MAX");
12
13
14
15
16        // 3.3 What's wrong? Will it compile? ==
17        if (length == MIN_LENGTH)
18            System.out.println("The length is minimal.");
19
20
21
22
23        // 3.4 What output is produced?
24        int num = 87, max = 25;
25        if (num >= max*2)
26            System.out.println("apple");
27            System.out.println("orange");
28        System.out.println("pear");
29
30
31
32
33        // 3.5 What is produced?
34        int limit = 100, num1 = 15, num2 = 40;
35        if (limit <= limit) {
36            if (num1 == num2)
37                System.out.println("lemon");
38            System.out.println("lime");
39        }
40        System.out.println("grape");
41
42
43
44
45        // 3.7 What is produced?
46        num = 1; max = 20;
47        while (num < max) {
48            if (num%2 == 0)
49                System.out.println(num);
50            num++;
51        }
52
53
54
55
56        // 3.8 What output is produced?
57        for (num=0; num<=200; num += 2)
58            System.out.println(num);
59
60
61
62
63        // 3.9 What output is produced?
64        for (int val = 200; val >= 0; val -= 1)
65            if (val % 4 != 0)
66                System.out.println(val);
67
68
69
70
71        // 3.10 Transform while into for
72        num = 1;
73        while (num < 20) {
74            num++;
75            System.out.println(num);
76        }
```

apple
orange
pear

lime
grape

Values going into loop

1, 2, 3, ..., 9

2, 4, 6, ..., 18

Big Test Question

What is num after
the loop completes
20

loop:
0, 2, 4, ..., 200

Values into the loop: 200, 199, 198, ..., 0

199, 198, 197, 195, 194, 193, 191, ..., 1

bed form

2, 3, 4, ..., 20

```
76     }
77
78
79
80
81     // 3.11 What is wrong? List three ways it could be corrected
82     count = 50;
83     while (count >= 0) {
84         System.out.println(count);
85         count = count + 1;
86     }
87
88
89
90
91
92     }
93 }
94
95
96
```

infinite loop