

```
1: // $Id: raceclick.java,v 1.2 2012-05-23 21:31:15-07 - - $
2:
3: //
4: // Show race conditions between two threads that click an int.
5: // Unsynchronized clicking the counter 1000000 times each.
6: //
7:
8: import static java.lang.System.*;
9:
10: class raceclick {
11:
12:     static class counter {
13:         int count = 0;
14:     }
15:
16:     static class racer implements Runnable {
17:         int ident;
18:         counter counted;
19:         racer (int idinit, counter countinit) {
20:             ident = idinit;
21:             counted = countinit;
22:         }
23:         public void run () {
24:             out.printf ("racer %d starting%n", ident);
25:             out.flush();
26:             for (int itor = 0; itor < 1000000; ++itor) ++counted.count;
27:             out.printf ("racer %d finished, count = %d%n",
28:                 ident, counted.count);
29:             out.flush();
30:         }
31:     }
32:
33:     public static void main (String[] args) {
34:         out.printf ("main starting%n");
35:         out.flush();
36:         counter counted = new counter ();
37:         Thread racer1 = new Thread (new racer (1, counted));
38:         Thread racer2 = new Thread (new racer (2, counted));
39:         racer1.start ();
40:         racer2.start ();
41:         out.printf ("main finished, count = %d%n", counted.count);
42:         out.flush();
43:     }
44: }
45:
46:
47: //TEST// runprog -x raceclick.lis raceclick
48: //TEST// mkpspdf raceclick.ps raceclick.java* raceclick.lis
49:
```

[illegible]

