```
1: // $Id: monthcal.java,v 1.4 2013-03-28 16:52:19-07 - - $
 2: //
 3: // SYNOPSIS
 4: //
          monthcal month year
 5: //
 6: // DESCRIPTION
 7: //
          Prints out one month of the Gregorian calendar using the
 8: //
          Julian changeover date of 1752-09-14 used by the British
 9: //
          Empire and her colonies.
10: //
11: // NOTES
12: //
          Month is represented inside GregorianCalendar zero-based,
13: //
          meaning their numbers are 0..11, not 1..12 as is needed
14: //
          for output.
15: //
16:
17: import java.util.GregorianCalendar;
18: import static java.lang.System.*;
19: import static java.util.Calendar.*;
20:
21: class monthcal {
22:
       static final GregorianCalendar CHANGE_DATE
23:
                   = new GregorianCalendar (1752, SEPTEMBER, 14);
24:
       //
25:
26:
       // main()
27:
       // Create a Gregorian calendar with British Empire changeover.
28:
       // Iterate over the month/year from args, printing the days of
29:
       // the week.
30:
       //
       public static void main (String[] args) {
31:
32:
          GregorianCalendar cal = new GregorianCalendar();
33:
          cal.setGregorianChange (CHANGE_DATE.getTime());
34:
35:
          int calmonth;
36:
          int calvear;
37:
          if (args.length > 0) {
38:
             // Use the month specified and fix off-by-one problem.
39:
             calmonth = Integer.parseInt (args[0]) - 1;
40:
             calyear = Integer.parseInt (args[1]);
41:
          }else {
             // Use the current month.
42:
43:
             calmonth = cal.get (GregorianCalendar.MONTH);
44:
             calyear = cal.get (GregorianCalendar.YEAR);
45:
          }
46:
          cal.set (calyear, calmonth, 1);
47:
48:
          while (calmonth == cal.get (GregorianCalendar.MONTH)) {
49:
             int calday = cal.get (GregorianCalendar.DAY_OF_MONTH);
             int weekday = cal.get (GregorianCalendar.DAY_OF_WEEK);
50:
51:
             out.printf ("%04d/%02d/%02d is weekday %d.%n",
52:
                         calyear, calmonth + 1, calday, weekday);
53:
             cal.add (GregorianCalendar.DAY_OF_MONTH, 1);
54:
          }
55:
       }
56:
57: }
58:
```

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## \$cmps012b-wm/Assignments/asg1j-jcal-3darray/misc/

**2**/2 18:34:16 monthcal.java 59: //TEST// monthcal >monthcal.out 60: //TEST// mkpspdf monthcal.ps monthcal.java\* monthcal.out 61:

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## \$cmps012b-wm/Assignments/asg1j-jcal-3darray/misc/monthcal.java.log

1/1

\$cmps012b-wm/Assignments/asg1j-jcal-3darray/misc/monthcal.out

1/1

```
1: 2015/01/01 is weekday 5.
 2: 2015/01/02 is weekday 6.
 3: 2015/01/03 is weekday 7.
 4: 2015/01/04 is weekday 1.
 5: 2015/01/05 is weekday 2.
 6: 2015/01/06 is weekday 3.
 7: 2015/01/07 is weekday 4.
 8: 2015/01/08 is weekday 5.
 9: 2015/01/09 is weekday 6.
10: 2015/01/10 is weekday 7.
11: 2015/01/11 is weekday 1.
12: 2015/01/12 is weekday 2.
13: 2015/01/13 is weekday 3.
14: 2015/01/14 is weekday 4.
15: 2015/01/15 is weekday 5.
16: 2015/01/16 is weekday 6.
17: 2015/01/17 is weekday 7.
18: 2015/01/18 is weekday 1.
19: 2015/01/19 is weekday 2.
20: 2015/01/20 is weekday 3.
21: 2015/01/21 is weekday 4.
22: 2015/01/22 is weekday 5.
23: 2015/01/23 is weekday 6.
24: 2015/01/24 is weekday 7.
25: 2015/01/25 is weekday 1.
26: 2015/01/26 is weekday 2.
27: 2015/01/27 is weekday 3.
28: 2015/01/28 is weekday 4.
29: 2015/01/29 is weekday 5.
30: 2015/01/30 is weekday 6.
31: 2015/01/31 is weekday 7.
```

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18:34:17