

```
1: // $Id: printcalnames.java,v 1.13 2013-03-28 16:41:08-07 - - $
2: //
3: // NAME
4: //   printcalnames - print out names of weekdays and months
5: //
6: // SYNOPSIS
7: //   printcalnames [language [country [variant]]]
8: //
9: // DESCRIPTION
10: //   Prints out the names of the days of the week and months of
11: //   the year in the given language, country, and variant. The
12: //   months are printed out in full and the days both in full
13: //   and abbreviated, as needed for the assignment.
14: //
15:
16: import java.util.*;
17: import static java.lang.Math.*;
18: import static java.lang.System.*;
19: import static java.util.Calendar.*;
20:
21: class printcalnames {
22:     static final int EXIT_FAILURE = 1;
23:
24:     static String prefix (String string, int length) {
25:         return length > string.length ()
26:             ? string
27:             : string.substring (0, length);
28:     }
29:
30:     static void printcalnames (Locale locale, String argstr) {
31:         String language = locale.getDisplayName();
32:         String foreign = locale.getDisplayName (locale);
33:         GregorianCalendar cal = new GregorianCalendar (locale);
34:         cal.set (MONTH, JANUARY);
35:         cal.set (DAY_OF_MONTH, 1);
36:         cal.add (DAY_OF_MONTH, (8 - cal.get (DAY_OF_WEEK)) % 7);
37:
38:         // Print out the days, in full and abbreviated.
39:         do {
40:             String dayname = String.format (locale, "%tA", cal);
41:             out.printf (locale, "[%s] %s (%s): day %d = %s (%s)%n",
42:                 argstr, language, foreign, cal.get (DAY_OF_WEEK),
43:                 dayname, prefix (dayname, 2));
44:             cal.add (DAY_OF_MONTH, 1);
45:         }while (cal.get (DAY_OF_WEEK) != SUNDAY);
46:
47:         // Print out the months.
48:         do {
49:             String monthname = String.format (locale, "%tB", cal);
50:             out.printf (locale, "[%s] %s (%s): month %2tm = %s (%s)%n",
51:                 argstr, language, foreign, cal, monthname,
52:                 prefix (monthname, 3));
53:             cal.add (MONTH, 1);
54:         }while (cal.get (MONTH) != JANUARY);
55:     }
56: }
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57:
58:     static String join (String[] args) {
59:         String result = "";
60:         for (String arg: args) result += "_" + arg;
61:         return result.substring (result.length() == 0 ? 0 : 1);
62:     }
63:
64:     public static void main (String[] args) {
65:         Locale locale = null;
66:         switch (args.length) {
67:             case 0 : locale = Locale.getDefault();
68:                     break;
69:             case 1 : locale = new Locale(args[0]);
70:                     break;
71:             case 2 : locale = new Locale(args[0], args[1]);
72:                     break;
73:             case 3 : locale = new Locale(args[0], args[1], args[2]);
74:                     break;
75:             default: err.printf ("Usage: %s %s\n",
76:                                 "printcalnames",
77:                                 "[language [country [variant]]]");
78:                     System.exit (EXIT_FAILURE);
79:         }
80:         printcalnames (locale, join (args));
81:     }
82:
83: }
84:
85: //TEST// cp /dev/null printcalnames.out
86: //TEST// for lang in '' da en es fr ga it nl no pt sv
87: //TEST// do
88: //TEST//     perl -e 'print "#" x 72, "\n"' >>printcalnames.out
89: //TEST//     printcalnames $lang >>printcalnames.out
90: //TEST// done
91: //TEST// mkpspdf printcalnames.ps printcalnames.java* printcalnames.out*
92:
```

[illegible]

```
1: #####
2: [] English (United States) (English (United States)): day 1 = Sunday (Su
)
3: [] English (United States) (English (United States)): day 2 = Monday (Mo
)
4: [] English (United States) (English (United States)): day 3 = Tuesday (T
u)
5: [] English (United States) (English (United States)): day 4 = Wednesday
(We)
6: [] English (United States) (English (United States)): day 5 = Thursday (
Th)
7: [] English (United States) (English (United States)): day 6 = Friday (Fr
)
8: [] English (United States) (English (United States)): day 7 = Saturday (
Sa)
9: [] English (United States) (English (United States)): month 01 = January
(Jan)
10: [] English (United States) (English (United States)): month 02 = Februar
y (Feb)
11: [] English (United States) (English (United States)): month 03 = March (
Mar)
12: [] English (United States) (English (United States)): month 04 = April (
Apr)
13: [] English (United States) (English (United States)): month 05 = May (Ma
y)
14: [] English (United States) (English (United States)): month 06 = June (J
un)
15: [] English (United States) (English (United States)): month 07 = July (J
ul)
16: [] English (United States) (English (United States)): month 08 = August
(Aug)
17: [] English (United States) (English (United States)): month 09 = Septemb
er (Sep)
18: [] English (United States) (English (United States)): month 10 = October
(Oct)
19: [] English (United States) (English (United States)): month 11 = Novembe
r (Nov)
20: [] English (United States) (English (United States)): month 12 = Decembe
r (Dec)
21: #####
22: [da] Danish (Dansk): day 1 = søndag (sø)
23: [da] Danish (Dansk): day 2 = mandag (ma)
24: [da] Danish (Dansk): day 3 = tirsdag (ti)
25: [da] Danish (Dansk): day 4 = onsdag (on)
26: [da] Danish (Dansk): day 5 = torsdag (to)
27: [da] Danish (Dansk): day 6 = fredag (fr)
28: [da] Danish (Dansk): day 7 = lørdag (lø)
29: [da] Danish (Dansk): month 01 = januar (jan)
30: [da] Danish (Dansk): month 02 = februar (feb)
31: [da] Danish (Dansk): month 03 = marts (mar)
32: [da] Danish (Dansk): month 04 = april (apr)
33: [da] Danish (Dansk): month 05 = maj (maj)
34: [da] Danish (Dansk): month 06 = juni (jun)
35: [da] Danish (Dansk): month 07 = juli (jul)
36: [da] Danish (Dansk): month 08 = august (aug)
37: [da] Danish (Dansk): month 09 = september (sep)
38: [da] Danish (Dansk): month 10 = oktober (okt)
39: [da] Danish (Dansk): month 11 = november (nov)
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40: [da] Danish (Dansk): month 12 = december (dec)
41: #####
42: [en] English (English): day 1 = Sunday (Su)
43: [en] English (English): day 2 = Monday (Mo)
44: [en] English (English): day 3 = Tuesday (Tu)
45: [en] English (English): day 4 = Wednesday (We)
46: [en] English (English): day 5 = Thursday (Th)
47: [en] English (English): day 6 = Friday (Fr)
48: [en] English (English): day 7 = Saturday (Sa)
49: [en] English (English): month 01 = January (Jan)
50: [en] English (English): month 02 = February (Feb)
51: [en] English (English): month 03 = March (Mar)
52: [en] English (English): month 04 = April (Apr)
53: [en] English (English): month 05 = May (May)
54: [en] English (English): month 06 = June (Jun)
55: [en] English (English): month 07 = July (Jul)
56: [en] English (English): month 08 = August (Aug)
57: [en] English (English): month 09 = September (Sep)
58: [en] English (English): month 10 = October (Oct)
59: [en] English (English): month 11 = November (Nov)
60: [en] English (English): month 12 = December (Dec)
61: #####
62: [es] Spanish (español): day 1 = domingo (do)
63: [es] Spanish (español): day 2 = lunes (lu)
64: [es] Spanish (español): day 3 = martes (ma)
65: [es] Spanish (español): day 4 = miércoles (mi)
66: [es] Spanish (español): day 5 = jueves (ju)
67: [es] Spanish (español): day 6 = viernes (vi)
68: [es] Spanish (español): day 7 = sábado (sá)
69: [es] Spanish (español): month 01 = enero (ene)
70: [es] Spanish (español): month 02 = febrero (feb)
71: [es] Spanish (español): month 03 = marzo (mar)
72: [es] Spanish (español): month 04 = abril (abr)
73: [es] Spanish (español): month 05 = mayo (may)
74: [es] Spanish (español): month 06 = junio (jun)
75: [es] Spanish (español): month 07 = julio (jul)
76: [es] Spanish (español): month 08 = agosto (ago)
77: [es] Spanish (español): month 09 = septiembre (sep)
78: [es] Spanish (español): month 10 = octubre (oct)
79: [es] Spanish (español): month 11 = noviembre (nov)
80: [es] Spanish (español): month 12 = diciembre (dic)
81: #####
82: [fr] French (français): day 1 = dimanche (di)
83: [fr] French (français): day 2 = lundi (lu)
84: [fr] French (français): day 3 = mardi (ma)
85: [fr] French (français): day 4 = mercredi (me)
86: [fr] French (français): day 5 = jeudi (je)
87: [fr] French (français): day 6 = vendredi (ve)
88: [fr] French (français): day 7 = samedi (sa)
89: [fr] French (français): month 01 = janvier (jan)
90: [fr] French (français): month 02 = février (fév)
91: [fr] French (français): month 03 = mars (mar)
92: [fr] French (français): month 04 = avril (avr)
93: [fr] French (français): month 05 = mai (mai)
94: [fr] French (français): month 06 = juin (jui)
95: [fr] French (français): month 07 = juillet (jui)
96: [fr] French (français): month 08 = août (août)
97: [fr] French (français): month 09 = septembre (sep)
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98: [fr] French (français): month 10 = octobre (oct)
99: [fr] French (français): month 11 = novembre (nov)
100: [fr] French (français): month 12 = décembre (déc)
101: #####
102: [ga] Irish (Gaeilge): day 1 = Dé Domhnaigh (Dé)
103: [ga] Irish (Gaeilge): day 2 = Dé Luain (Dé)
104: [ga] Irish (Gaeilge): day 3 = Dé Máirt (Dé)
105: [ga] Irish (Gaeilge): day 4 = Dé Céadaoin (Dé)
106: [ga] Irish (Gaeilge): day 5 = Déardaoin (Dé)
107: [ga] Irish (Gaeilge): day 6 = Dé hAoine (Dé)
108: [ga] Irish (Gaeilge): day 7 = Dé Sathairn (Dé)
109: [ga] Irish (Gaeilge): month 01 = Eanáir (Ean)
110: [ga] Irish (Gaeilge): month 02 = Feabhra (Fea)
111: [ga] Irish (Gaeilge): month 03 = Márta (Már)
112: [ga] Irish (Gaeilge): month 04 = Aibreán (Aib)
113: [ga] Irish (Gaeilge): month 05 = Bealtaine (Bea)
114: [ga] Irish (Gaeilge): month 06 = Meitheamh (Mei)
115: [ga] Irish (Gaeilge): month 07 = Iúil (Iúi)
116: [ga] Irish (Gaeilge): month 08 = Lúnasa (Lún)
117: [ga] Irish (Gaeilge): month 09 = Meán Fómhair (Meá)
118: [ga] Irish (Gaeilge): month 10 = Deireadh Fómhair (Dei)
119: [ga] Irish (Gaeilge): month 11 = Samhain (Sam)
120: [ga] Irish (Gaeilge): month 12 = Nollaig (Nol)
121: #####
122: [it] Italian (italiano): day 1 = domenica (do)
123: [it] Italian (italiano): day 2 = lunedì (lu)
124: [it] Italian (italiano): day 3 = martedì (ma)
125: [it] Italian (italiano): day 4 = mercoledì (me)
126: [it] Italian (italiano): day 5 = giovedì (gi)
127: [it] Italian (italiano): day 6 = venerdì (ve)
128: [it] Italian (italiano): day 7 = sabato (sa)
129: [it] Italian (italiano): month 01 = gennaio (gen)
130: [it] Italian (italiano): month 02 = febbraio (feb)
131: [it] Italian (italiano): month 03 = marzo (mar)
132: [it] Italian (italiano): month 04 = aprile (apr)
133: [it] Italian (italiano): month 05 = maggio (mag)
134: [it] Italian (italiano): month 06 = giugno (giu)
135: [it] Italian (italiano): month 07 = luglio (lug)
136: [it] Italian (italiano): month 08 = agosto (ago)
137: [it] Italian (italiano): month 09 = settembre (set)
138: [it] Italian (italiano): month 10 = ottobre (ott)
139: [it] Italian (italiano): month 11 = novembre (nov)
140: [it] Italian (italiano): month 12 = dicembre (dic)
141: #####
142: [nl] Dutch (Nederlands): day 1 = zondag (zo)
143: [nl] Dutch (Nederlands): day 2 = maandag (ma)
144: [nl] Dutch (Nederlands): day 3 = dinsdag (di)
145: [nl] Dutch (Nederlands): day 4 = woensdag (wo)
146: [nl] Dutch (Nederlands): day 5 = donderdag (do)
147: [nl] Dutch (Nederlands): day 6 = vrijdag (vr)
148: [nl] Dutch (Nederlands): day 7 = zaterdag (za)
149: [nl] Dutch (Nederlands): month 01 = januari (jan)
150: [nl] Dutch (Nederlands): month 02 = februari (feb)
151: [nl] Dutch (Nederlands): month 03 = maart (maa)
152: [nl] Dutch (Nederlands): month 04 = april (apr)
153: [nl] Dutch (Nederlands): month 05 = mei (mei)
154: [nl] Dutch (Nederlands): month 06 = juni (jun)
155: [nl] Dutch (Nederlands): month 07 = juli (jul)
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156: [nl] Dutch (Nederlands): month 08 = augustus (aug)
157: [nl] Dutch (Nederlands): month 09 = september (sep)
158: [nl] Dutch (Nederlands): month 10 = oktober (okt)
159: [nl] Dutch (Nederlands): month 11 = november (nov)
160: [nl] Dutch (Nederlands): month 12 = december (dec)
161: #####
162: [no] Norwegian (norsk): day 1 = søndag (sø)
163: [no] Norwegian (norsk): day 2 = mandag (ma)
164: [no] Norwegian (norsk): day 3 = tirsdag (ti)
165: [no] Norwegian (norsk): day 4 = onsdag (on)
166: [no] Norwegian (norsk): day 5 = torsdag (to)
167: [no] Norwegian (norsk): day 6 = fredag (fr)
168: [no] Norwegian (norsk): day 7 = lørdag (lø)
169: [no] Norwegian (norsk): month 01 = januar (jan)
170: [no] Norwegian (norsk): month 02 = februar (feb)
171: [no] Norwegian (norsk): month 03 = mars (mar)
172: [no] Norwegian (norsk): month 04 = april (apr)
173: [no] Norwegian (norsk): month 05 = mai (mai)
174: [no] Norwegian (norsk): month 06 = juni (jun)
175: [no] Norwegian (norsk): month 07 = juli (jul)
176: [no] Norwegian (norsk): month 08 = august (aug)
177: [no] Norwegian (norsk): month 09 = september (sep)
178: [no] Norwegian (norsk): month 10 = oktober (okt)
179: [no] Norwegian (norsk): month 11 = november (nov)
180: [no] Norwegian (norsk): month 12 = desember (des)
181: #####
182: [pt] Portuguese (português): day 1 = Domingo (Do)
183: [pt] Portuguese (português): day 2 = Segunda-feira (Se)
184: [pt] Portuguese (português): day 3 = Terça-feira (Te)
185: [pt] Portuguese (português): day 4 = Quarta-feira (Qu)
186: [pt] Portuguese (português): day 5 = Quinta-feira (Qu)
187: [pt] Portuguese (português): day 6 = Sexta-feira (Se)
188: [pt] Portuguese (português): day 7 = Sábado (Sá)
189: [pt] Portuguese (português): month 01 = Janeiro (Jan)
190: [pt] Portuguese (português): month 02 = Fevereiro (Fev)
191: [pt] Portuguese (português): month 03 = Março (Mar)
192: [pt] Portuguese (português): month 04 = Abril (Abr)
193: [pt] Portuguese (português): month 05 = Maio (Mai)
194: [pt] Portuguese (português): month 06 = Junho (Jun)
195: [pt] Portuguese (português): month 07 = Julho (Jul)
196: [pt] Portuguese (português): month 08 = Agosto (Ago)
197: [pt] Portuguese (português): month 09 = Setembro (Set)
198: [pt] Portuguese (português): month 10 = Outubro (Out)
199: [pt] Portuguese (português): month 11 = Novembro (Nov)
200: [pt] Portuguese (português): month 12 = Dezembro (Dez)
201: #####
202: [sv] Swedish (svenska): day 1 = söndag (sö)
203: [sv] Swedish (svenska): day 2 = måndag (må)
204: [sv] Swedish (svenska): day 3 = tisdag (ti)
205: [sv] Swedish (svenska): day 4 = onsdag (on)
206: [sv] Swedish (svenska): day 5 = torsdag (to)
207: [sv] Swedish (svenska): day 6 = fredag (fr)
208: [sv] Swedish (svenska): day 7 = lördag (lö)
209: [sv] Swedish (svenska): month 01 = januari (jan)
210: [sv] Swedish (svenska): month 02 = februari (feb)
211: [sv] Swedish (svenska): month 03 = mars (mar)
212: [sv] Swedish (svenska): month 04 = april (apr)
213: [sv] Swedish (svenska): month 05 = maj (maj)
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214: [sv] Swedish (svenska): month 06 = juni (jun)
215: [sv] Swedish (svenska): month 07 = juli (jul)
216: [sv] Swedish (svenska): month 08 = augusti (aug)
217: [sv] Swedish (svenska): month 09 = september (sep)
218: [sv] Swedish (svenska): month 10 = oktober (okt)
219: [sv] Swedish (svenska): month 11 = november (nov)
220: [sv] Swedish (svenska): month 12 = december (dec)
```