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#! /usr/bin/perl

 # month ofset tables for nomal year
 @MM = (0, 1, 2, 3, 4, 5, 5, 5, 5, 5, 5, 5, 5);

 # usage
 die "Usage: cal c/y/m/d" if ($ARGV[0] eq undef);

 # get date form
($cc,$yy,$mm,$dd) = split('/',$ARGV[0]);

 # date normalization
 $cl  =  $cc      % 27;
 $ct  = ($cc-$cl) / 27;
 $cm  =  $ct      % 12;
 $ch  = ($ct-$cm) / 12;
 $mm -=  $cm;
($yy,$mm)     = ($yy-1,$mm+12  ) if ($mm < 0);
($cl,$yy)     = ($cl-1,63      ) if ($yy < 0);
($cm,$cl,$mm) = ($cm-1,26,$mm+1) if ($cl < 0);
($ch,$cm)     = ($ch-1,11      ) if ($cm < 0);
 $yl =   $yy      %  4;
 $yh =  ($yy-$yl) /  4;

 # conversion to Julian Day Number
 $jdn =  $ch *(((365*4+1)*16*27-13)*12-5)
       + $cm * ((365*4+1)*16*27-13 +30)
       + $cl *  (365*4+1)*16       - int($cl/2)
       + $yy *   365               + $yh
       + $mm *    30               + $MM[$mm]
       + $dd +  (2526409-2898564);

 # adjustment of leap day
 $jdn++ if ($yl ==  3 && $mm > 5 &&
          !($yh == 15 &&($cl % 2 > 0)));

 print "$ARGV[0]:  $jdn";
```