

iranphp articles

عنوان مقاله : تابع های تبدیل تاریخ شمسی به میلادی و برعکس
نگارنده :
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تابع های تبدیل تاریخ شمسی به میلادی و برعکس:

```
<?php
// \"jalali.php\" is convertor to and from Gregorian and Jalali calendars.
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//
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//

function div($a,$b) {
    return (int) ($a / $b);
}

function gregorian_to_jalali ($g_y, $g_m, $g_d)
{
    $g_days_in_month = array(31, 28, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31);
    $j_days_in_month = array(31, 31, 31, 31, 31, 31, 30, 30, 30, 30, 30, 29);

    $gy = $g_y-1600;
    $gm = $g_m-1;
    $gd = $g_d-1;

    $g_day_no = 365*$gy+div($gy+3,4)-div($gy+99,100)+div($gy+399,400);

    for ($i=0; $i < $gm; ++$i)
        $g_day_no += $g_days_in_month[$i];
    if ($gm>1 && (($gy%4==0 && $gy%100!=0) || ($gy%400==0)))
        /* leap and after Feb */
        $g_day_no++;
    $g_day_no += $gd;

    $j_day_no = $g_day_no-79;

    $j_np = div($j_day_no, 12053); /* 12053 = 365*33 + 32/4 */
    $j_day_no = $j_day_no % 12053;

    $jy = 979+33*$j_np+4*div($j_day_no,1461); /* 1461 = 365*4 + 4/4 */

    $j_day_no %= 1461;

    if ($j_day_no >= 366) {
        $jy += div($j_day_no-1, 365);
        $j_day_no = ($j_day_no-1)%365;
    }
}
```

```
}

for ($i = 0; $i < 11 && $j_day_no >= $j_days_in_month[$i]; ++$i)
    $j_day_no -= $j_days_in_month[$i];
$j_m = $i+1;
$j_d = $j_day_no+1;

return array($j_y, $j_m, $j_d);
}

function jalali_to_gregorian($j_y, $j_m, $j_d)
{
    $g_days_in_month = array(31, 28, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31);
    $j_days_in_month = array(31, 31, 31, 31, 31, 31, 30, 30, 30, 30, 29);

    $j_y = $j_y-979;
    $j_m = $j_m-1;
    $j_d = $j_d-1;

    $j_day_no = 365*$j_y + div($j_y, 33)*8 + div($j_y%33+3, 4);
    for ($i=0; $i < $j_m; ++$i)
        $j_day_no += $j_days_in_month[$i];

    $j_day_no += $j_d;

    $g_day_no = $j_day_no+79;

    $g_y = 1600 + 400*div($g_day_no, 146097); /* 146097 = 365*400 + 400/4 - 400/100 + 400/400 */
    $g_day_no = $g_day_no % 146097;

    $leap = true;
    if ($g_day_no >= 36525) /* 36525 = 365*100 + 100/4 */
    {
        $g_day_no--;
        $g_y += 100*div($g_day_no, 36524); /* 36524 = 365*100 + 100/4 - 100/100 */
        $g_day_no = $g_day_no % 36524;

        if ($g_day_no >= 365)
            $g_day_no++;
        else
            $leap = false;
    }

    $g_y += 4*div($g_day_no, 1461); /* 1461 = 365*4 + 4/4 */
    $g_day_no %= 1461;

    if ($g_day_no >= 366) {
        $leap = false;

        $g_day_no--;
        $g_y += div($g_day_no, 365);
        $g_day_no = $g_day_no % 365;
    }

    for ($i = 0; $g_day_no >= $g_days_in_month[$i] + ($i == 1 && $leap); $i++)
        $g_day_no -= $g_days_in_month[$i] + ($i == 1 && $leap);
    $g_m = $i+1;
    $g_d = $g_day_no+1;
}
```

```
return array($gy, $gm, $gd);  
}  
?>
```

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