1 2 5 7 10 11 13 14 17 19 22 23

25

(3的倍數)

(4的倍數) 3 6 9

4 8 16 12 15 18 21

20 24

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| w指標 | 日0 | 1 | 2 | 3 | 4 | 5 | 6 |
|  |  | 1 | 2 | 3 | 4 | 5 | 6 |
|  | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|  | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| %7餘數 | 0 | 1 | 2 | 3 | 4 | 5 | 6 |

元旦指標算法

例:西元y年算法

1. 先計算1~(y-1)年的閏年數,設 閏年數為m，平年數為n
2. m+n=(y-1)
3. m\*366+n\*365 (經過總日數)
4. 元旦星期指標計算方法

(m\*366+n\*365+1)%7 (西元元年元旦指標為1)

=[m\*(52\*7+2)+n\*(52\*7+1)+1]%7

=(m\*52\*7+2m+n\*52\*7+n+1)%7

=[(2m+n+1)+( m\*52\*7+n\*52\*7)]%7

=(2m+n+1)%7+( m\*52\*7+n\*52\*7)%7

=(m+m+n+1)%7+0

=[m+(y-1)+1]%7

=(m+y)%7