Main

det month

det_year

comp offset

display

days_in_month

leap_year

month → Main

year → Main

month year → comp offset

month, year → display

month year → days_in_month

num days → comp offset

month year → days_in_month

num day → display

year → leap_year

bool is_leap_year

Comp_offset(year, month, is_leap_year, num_days)
SET total_days = 0
  FOR y FROM 1753 TO (year-1)
    IF calc_leap_year(y) THEN
      total_days += 366
    ELSE
      total_days += 365
  FOR m FROM 1 TO (month-1)
    total_days += num_days_in_month(year, m)
SET Offset = total_days MOD 7

---

get_month

start

month

must be valid

must be int

is valid — no

is int — no

yes

return month

end