Jitter of Julian Calendar 28-year Cycle

Leap year if the **remainder** of (4 x *year* + K) / 4 is less than 1.

Although the Julian Calendar can be considered as based on a 4-year leap cycle, it is shown here as 7x4 = 28 years because that is its full repetition cycle with respect to the traditional 7-day weekly cycle.

—✕— Jitter vs. Mean Year (K=0)

—— Jitter range = 0.75 = 3/4 days

Jitter (days)

Year (mean year of 365+$^1/_4$ days = 365d 6h = 365.25 days = ancient Egyptian approximation to Sothic Year)