

- You start w/ putting \$1⁰⁰ in bank on day 1 (Monday)
- Everyday from Tue - Sunday, you put in \$1⁰⁰ more than the previous day.
- Starting on the next Monday, you put in \$1⁰⁰ more than the previous Monday

$$(1 \ 2 \ 3 \ 4 \ 5 \ 6 \ 7) = 28$$

$$(2 \ 3 \ 4 \ 5 \ 6 \ 7 \ 8) = 35$$

$$(3 \ 4 \ 5 \ 6 \ 7 \ 8 \ 9) = 42$$

$$\sum_{i=1}^n \sum_{j=1}^7 j+i$$

$$1 \ 3 \ 6 \ 10 \ 15 \ 21 \ 28$$

$$\frac{n(n+1)}{2} \quad \text{Only works from } 0-n$$

$$\left(\frac{x+y}{2}\right) (x-y+1)$$

From $[x, y]$ inclusive

$$\left(\frac{1+7}{2}\right) (7-1+1)$$

$$4 (7) = 28$$

$$\frac{2+8}{2} (8-2+1)$$

$$5 \ 7 \ 35$$

$$\frac{5}{2}$$

$$2.5 (4)$$

$$10$$

Apparently a $S: O(1) T: O(1)$ approach, idk if I remember enough math.

$$1 + 2 + 3 + 4 + 5 + 6 + 7$$

$$2 + 3 + 4 + 5 + 6 + 7 + 8$$

$$3 + 4 + 5 + 6 + 7 + 8 + 9$$

$$\text{numWeeks} = n // 7$$

$$\text{final} = \text{numWeeks} + 6$$

$$\text{rem} = n \% 7$$