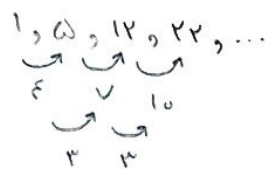


$$t_n = n^2 + \frac{n(n-1)}{2} \rightarrow t_n = 10^2 + \frac{10(10-1)}{2} = 100 + (5 \times 9) = 100 + 45 = 145$$



$$2a = 3 \rightarrow a = \frac{3}{2}$$

$$3a + b = 4 \rightarrow b = 4 - \frac{9}{2} = -\frac{1}{2}$$

$$a + b + c = 1 \rightarrow c = 0$$

$$t_n = \frac{3}{2}n^2 - \frac{1}{2}n = \frac{3}{2}(10)^2 - \left(\frac{1}{2} \times 10\right) = \frac{300}{2} - 5 = 150 - 5 = 145$$

سطح یازدهم $\rightarrow$ $\frac{n(n-1)}{2} \rightarrow \frac{n(n-1)}{2} = 55 \rightarrow n(n-1) = 110 \rightarrow n = 11 \checkmark$
 غیر قابل قبول $n = -10$

$$0, 4, 8, \dots \rightarrow t_n = (n-1)4 \rightarrow t_{11} = (11-1)4 = 40$$

الگوی سهره های سفید

$$5, 9, 13, \dots \rightarrow t_n = 4n + 1 \rightarrow t_{11} = (11 \times 4) + 1 = 45$$

الگوی سهره های زردی

$$\text{تعداد کل} = 40 + 45 = 85$$

$$a_1 = \frac{(-1)^1}{1} = -1 \rightarrow \text{کوچک ترین جمله}$$

$$a_2 = \frac{(-1)^2}{2} = \frac{1}{2} \rightarrow \text{بزرگ ترین جمله}$$

$$\rightarrow a_2 - a_1 = \frac{1}{2} - (-1) = \frac{1}{2} + 1 = \frac{3}{2}$$

$$b_n = (-3)^n - 212 = -27 - 212 = -239$$

$$a_k = -5k + 22$$

$$-5k + 22 = -239 \rightarrow -5k = -261 \rightarrow k = \frac{261}{5} = 52.2$$

$$d_2 = \frac{t_{10} - t_v}{10 - v} = \frac{14}{9} = 1.55$$

$$t_2 - t_1 = t_1 + \Delta d - t_1 = \Delta d = \Delta x \varepsilon = \gamma_0$$

3

$$d_{1,2} = \frac{a_E - a_T}{E - V} \pm \frac{1}{V} \sqrt{\frac{(a_E - a_T)^2}{(E - V)^2} - \frac{1}{V^2}} = \xi$$

$$a_1 = a_1 + d = V \rightarrow a_1 = V - \epsilon = V$$

$$a_{\mu} = a_{\mu} + d = v + \varepsilon = 11$$

$$b_n = 1, 11, \dots \rightarrow b_n = \Lambda n - \omega$$

y

$$Y, 4, 10, 18, \dots \rightarrow t_n \in \mathbb{N} \rightarrow Y$$

$$\omega, v, q, \Pi, \dots \rightarrow t_n, r_n, w$$

$$\frac{\varepsilon n - r}{r n + r} < \frac{r}{r} \rightarrow \varepsilon n - \varepsilon < r n + r \rightarrow r n < r n + r \rightarrow n < \frac{r n + r}{r} \rightarrow 12.9$$

$n \geq 1, r, r_1, r_2, \dots$

اللوى صورت
اللوى مخرج

A

4, 9, 9, 4, 0, ...

$$rA + \omega B = -\frac{r}{r}(r) + \omega\left(\frac{1}{r}\right) = \frac{-9}{r} + \frac{v\omega}{r}$$

$$r_a = -r \rightarrow a = -\frac{r}{y} \quad B$$

$$w_a + b \geq w \rightarrow b \geq w - \frac{a}{r} \geq \frac{16}{r}$$

$$a+b+c=9 \rightarrow C_{20}$$

$$t_n = An^2 + Bn = \frac{w}{y}n^2 + \frac{10}{y}n$$

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$$-49 - 8,09 \dots$$

$$d = \frac{a_E - a_Y}{f - r} = \frac{f(1 - r)}{r} = \frac{10}{r} = \Delta \rightarrow t_n = \Delta n + r$$

$$n^Y - n - 9 \geq \Delta n + \gamma 1 \rightarrow n^Y - n - \Delta n - 9 - \gamma 1 \geq 0$$

$n^2 - 9n - 20 \geq 0 \rightarrow (n-9)(n+3) \geq 0$

$\begin{cases} n \geq 9 \checkmark \\ n \leq -3 \alpha \end{cases}$

من قال قول

$$\gamma a_2 \gamma \rightarrow a_2 1$$

$$r_a + b_2 r \rightarrow b_2 r - r_2 - 1$$

$$a+b+c_2-y \rightarrow c_2-y$$

$$t_n = n^2 - n - 4$$

7. 44 تا 92 برابری

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