

$$t_n = t_1 + (n-1)d$$

$$t_1 = t_v = 1d = 1 \Rightarrow d = 1$$

$$t_4 - t_1 = (4-1)d = 3d = 3 \times 1 = 3$$

$$\alpha_f - \alpha_v = 1d_{\alpha} \Rightarrow 1 - 1 = 1 = 1d_{\alpha} \rightarrow d_{\alpha} = 1$$

$$\alpha_1 = \alpha_v - d_{\alpha} = 1 - 1 = 0 \Rightarrow \alpha_1 = 0$$

$$\alpha_v = \alpha_1 + 1d_{\alpha} = 0 + 1 = 1 \Rightarrow \alpha_v = 1$$

$$b_1 = \alpha_1 = 0 \quad d_b = b_v - b_1 \Rightarrow 1 - 0 = 1$$

$$b_v = \alpha_v = 1 \quad b_n = b_1 + (n-1)d_b \Rightarrow 1 + (n-1)1 = \boxed{1n - 0}$$

$$b_v = (-1)^v - (v \times v) = -1v - v = -2v$$

$$\alpha_v = -2v + 1v$$

$$-1v = -2v + 1v$$

$$-v = -2v + 1v$$

$$\boxed{v = 1v}$$

$$t_n = An^2 + Bn$$

$$t_1 = 4$$

$$t_v = 9$$

$$\begin{cases} n=1 \Rightarrow A+B=4 \\ n=v \Rightarrow 1A+1B=9 \end{cases} \Rightarrow \begin{cases} -1A - 1B = -1v \\ 1A + 1B = 9 \end{cases}$$

$$A = -\frac{1}{2}$$

$$-\frac{1}{2} + B = 9 \Rightarrow B = \frac{19}{2}$$

$$1 \times (-\frac{1}{2}) + 2(\frac{19}{2}) = -\frac{1}{2} + \frac{38}{2} = \frac{37}{2} = \boxed{18.5}$$

$$t_n = An^2 + Bn + C$$

$$t_1 = -4$$

$$t_v = -1$$

$$t_v = 0$$

$$n=1 \quad A+B+C=-4$$

$$n=v \quad 1A+1B+C=-1$$

$$n=v \quad 1A+1B+C=0$$

$$a_m = 1v + (n-1)d = 2n + 1$$

$$t_n = a_m \Rightarrow n^2 - n - 4 = 2n + 1$$

$$-4$$

$$-1$$

$$0$$

$$1$$

$$2$$

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$$\frac{n(n-1)}{2} + n^2 = \frac{1 \times 9}{2} = 4.5 + 1.2 = 5.7$$

$\begin{cases} r=1 \\ r=2 \\ r=4 \end{cases} \rightarrow \text{شکل} \quad \frac{n(n-1)}{2}$
 $\frac{n(n-1)}{2} = 5.5$
 $n(n-1) = 11$
 $t_{11} = 5.5$

$\text{جمله } n \text{ درج} = \text{جمله } n \text{ درج} +$
 $\text{جمله } n \text{ درج} = \text{جمله } n \text{ درج} -$
 $\frac{1}{2} \binom{n}{1} = \frac{3}{2}$
 $n=1 \quad \alpha_1 = \frac{(-1)^1}{1} = -1$
 $n=2 \quad \alpha_2 = \frac{(-1)^2}{2} = \frac{1}{2}$

$t_{n+1} = 5, 9, 13, \dots$
 $t_{n-1} = 1, 5, 9, \dots$

$t_{n+1} = (t_{n+1}) + 1 = 5$
 $t_n = (t_n) - 2 = 4$

$\text{صورت} = 2 + (n-1)2 = 2n$
 $\Rightarrow t_n = \frac{2n-2}{2n+2} = \frac{n-1}{n+1}$
 $2(2n-2) < 3(2n+2)$
 $4n-4 < 6n+6$
 $4n-6n < 6+4$
 $-2n < 10$
 $n < -5$

سوال د ناست معنی

$n \in \{1, 2, 3, 4, 5, 6\}$
 $\frac{3}{2} \rightarrow \text{جمله } n \text{ درج}$