

$$a_1 = f_0 \quad a_f = 41 \rightarrow a_f - a_1 = 40d \rightarrow 40d = 41 \rightarrow d = 1$$

$$f_n = f_0 + v(n-1) \quad 41 = f_0 + v(n-1) \quad 41 = v(n-1) \quad 1 \cdot 41 = v(n-1) \rightarrow n = 42$$

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$$98 + 3 = 101 \rightarrow \text{اولین عدد مرتبه} \quad 99 + 3 = 99V \rightarrow \text{اولین عدد مرتبه}$$

$$101, 104, 107, \dots, 99V \rightarrow n = \frac{99V - 101}{3} + 1 = 129$$

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$$a_{n+1} + a_{n+2} + a_{n+3} = -4n + 12$$

$$a_{n+1} + a_{n+2} + a_{n+3} = -4n + 12 \sim 3a_n + 4d = -4n + 12 \rightarrow n = 1 \rightarrow 3a_1 + 4d = -4 + 12 \rightarrow a_1 + 4d = 4$$

$$n = 3 \rightarrow 3a_3 + 4d = -12 + 12 \rightarrow 4d = 0 \rightarrow d = 0 \rightarrow a_1 = 4$$

$$a_{10} = a_1 + 9d = -24, a_n = \frac{4}{2} - \frac{1}{2}n \quad 24 - n = -\frac{1}{2}n$$

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$$a_n = 2^n - 1 \quad a_n = 2^{n+1}$$

$$a_{1n} = 2^n - 1$$

$$a_n + a_{1n} = 2a_n$$

$$2^n - 1 + 2^n - 1 = 2(2^n + 1)$$

$$2^n - 1 \mid 2^{n+1} - 2$$

$$2^n + 1 \mid 2^{n+1} - 2$$

$$2^n + 2^n - 2 = 2^{n+1} - 2$$

$$2^n \Rightarrow y$$

$$2^n - 2 = 2^{n+1} - 2 \rightarrow 2^n - 2 = 2(2^n) - 2 \rightarrow 2^n - 2 = 2^{n+1} - 2$$

$$y^n - 2a - \varepsilon = \dots \rightarrow a + b + c = 0 \rightarrow y = -1 \rightarrow y = 2 \rightarrow 2^n = \varepsilon \rightarrow a = 2$$

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$$a_{12} - a_{11} = 5$$

$$a_{10} + a_{12} = 25$$

$$2d = 5 \rightarrow d = 2.5$$

$$a_{11} + a_{12} = 2d$$

$$a_{12} - a_{11} = 5$$

$$2a_{12} = 5 \rightarrow a_{12} = 2.5$$

$$a_n = a + nd$$

$$a_{11} = 15 + 9 \cdot 2.5 = 37.5$$

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$$a_1 + a_2 + a_3 + a_4 + a_5 = \frac{1}{5} (a_1 + a_2 + a_3 + a_4 + a_5)$$

$$a + a + d + a + r d + a + r d + a + r d = \frac{1}{r} (a + r d + a + r d + a + r d + a + r d + a + r d)$$

$$\partial a + 1 \cdot d = \frac{1}{3} (\gamma a + \gamma d)$$

$$\gamma(a + vd) = \frac{\gamma}{t}(a + vd)$$

$$0 + rd = \frac{1}{r}a + \frac{k}{r}d \rightarrow \underbrace{\frac{r}{k} \times \frac{k}{r}}_{a = \frac{1}{r}d} = \frac{k}{r}d =$$

$$\frac{a + \cancel{r}}{a} = \frac{a + \cancel{r}}{a} = \frac{r}{a} = \frac{r}{a} \quad \text{--- (2)}$$

$$t_n \sim t_{n-1} + 1 \delta$$

$$t_{1,r} = t_{1,r-t} + 1\omega \rightarrow t_{1,r} = t_q + \overset{rel}{1}\omega \rightarrow d = \alpha$$

$$t_a = t_q - \cancel{\varepsilon_d} = t_q - \gamma_0$$

$$t_v = t_{q-1}d = t_{q-1}.$$

$$(t_q)^r = \underbrace{(t_q - \tau_0)^r}_{t_q^r} - \cancel{t_q^r} + \cancel{t_q^r} + \Sigma \cdot 0 = \Sigma \cdot t_q = \Sigma \dots + \Sigma \cdot t_q$$

$$- \sum c_i + \sum c_i t_i = c_r (t_q - t_0)$$

$$\frac{\Sigma \cdot (t_q - 1)}{t_q - 1} = \Sigma$$

$$d = \frac{b-a}{n+1} \longrightarrow \gamma + \sqrt{r} = \gamma + 1\sqrt{r} = 1\sqrt{r} \quad d = \frac{1\sqrt{r}}{1r} = \sqrt{r}$$

$$d = \frac{\mu_T - r}{r_{n+1}} = \frac{\mu_0}{r_{n+1}} = \frac{1\%}{r_{n+1}}$$

$$t_{n+1} = t_1 + nd \rightarrow 11 = 7 + nd \rightarrow nd = 4$$

$$q = n \left(\frac{18}{r_{n-1}} \right) \quad \Rightarrow \quad r = n \left(\frac{a}{r_{n-1}} \right) \rightarrow an = 2n - 1 \rightarrow \underline{n = 1}$$

$$a_n + a_{n+2} = a_n + a_{n+1} \rightarrow n + n + 2 = n + 1 \rightarrow n + 2 = 1 \rightarrow n = 1$$

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$$a_{11} + a_{12} = a_{13} + a_{14}$$

$$a_n = r a_{\frac{n}{r}} \rightarrow a_1 = r a_{\frac{1}{r}}$$

$$r_a = -r_b$$

$$a_n = a + d(n-1) \geq 0 \rightarrow -a + d n \geq 0$$

$$a_{+vel_z} \approx a_{+9d}$$

$$\text{cl } \alpha \rightarrow \text{rel} \quad (\alpha = \gamma)$$

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