

$$\left. \begin{aligned} a_1(\text{پیش}) &= 1^2 + 1 + 1 \\ a_2(\text{II}) &= 9^2 + 11 \end{aligned} \right\} \text{داده ها} \quad \frac{9d+11}{2} = 12$$

$$\left. \begin{aligned} a_n &= 1, 3, 9, \dots \rightarrow \text{داده ها} = a_4 = 1 + 3 + 9 + 27 \\ b_n &= 1, 4, 16, 64, 256, \dots \rightarrow \text{داده ها} = 16 \end{aligned} \right\} \frac{1+3+9+27}{4} = 12$$

$$L_{10} = 1 + 1 = 19$$

$$\Rightarrow 19 = 1 + 18 \Rightarrow 18 = 18$$

$$\Rightarrow a_n = a_1 + a_2 + a_3 + \dots + a_n$$

$$\Rightarrow L_{10} = 1 + 1 = 19$$

$$a_n = a_1 + b_1 + c_1, a = \frac{1}{V_0} x - 1 \Rightarrow 19 = -0.1$$

$$\rightarrow a_n = a_1 + a_2 + a_3 + a_4 + a_5 + a_6 + a_7 + a_8 + a_9 + a_{10} \Rightarrow a = \frac{1}{V_0} x - 1 \Rightarrow -0.1$$

$$\left. \begin{aligned} (-0.1) \times 9 + 16 &= 14 \Rightarrow 16 = 14 \\ (-0.1) \times 4 + 16 &= 15 \Rightarrow 16 = 15 \end{aligned} \right\} \Rightarrow 16 = 14 \Rightarrow 16 = 15 \Rightarrow 16 = 16$$

$$\Rightarrow \frac{a_{10}}{a_1} = \frac{(-0.1)(10^2) + 16 \times 10 - 1}{-0.1 \times 10 - 1} = \frac{16}{-1.1} = 14.54$$

$$a_1 = b_1, a_n = b_n \Rightarrow a_n - a_1 = b_n - b_1 \Rightarrow 16 - 1 = 15 \Rightarrow 15 = 15$$

$$b = 9 \left(\frac{1}{d} \right) d = 9 \Rightarrow b = 9$$

$$\Rightarrow \frac{b_{10}}{d} = \frac{-9d + 9d}{d} = \frac{0}{d} = 0$$

$$\begin{aligned}
 & \Rightarrow (a+d) + d(a+d)a + r(a+d)a \\
 & \Rightarrow Ha^r + Kad + 4d^r + da^r + 10ad + 4a^r + rkd \\
 & \Rightarrow -4a^r - ad + 4d^r = 0 \xrightarrow{\text{GUE}} a^r - ad + 4d^r = 0 \\
 & \Rightarrow (a-4d)(a+d) \Rightarrow a = \frac{4d}{-1} = -4d, a = \frac{-4d}{-1} = 4d \\
 & \Rightarrow \frac{a}{d} = \frac{-4d}{d} = -4 \quad \left\{ \begin{array}{l} \frac{-4d}{d} = -4 \\ \frac{4d}{d} = 4 \end{array} \right. \Rightarrow \frac{a}{d} = -4, 4
 \end{aligned}$$

$$\begin{aligned}
 & b = \frac{a+c}{r} \Rightarrow \frac{a^r}{r} + b = \frac{c}{r} \Rightarrow \frac{a^r}{r} = \frac{a+c-r}{1} \\
 & \Rightarrow 4a^r = a+c \Rightarrow 4a^r - a - c = 0 \xrightarrow{\text{GUE}} a^r - a - \frac{c}{4} = 0 \Rightarrow (a-\frac{c}{4})(a+c) = 0 \\
 & \Rightarrow a = \frac{c}{4} \text{ or } a = -c \Rightarrow a = \frac{c}{4} \Rightarrow q = -1 \Rightarrow 4aq = -1 \\
 & \Rightarrow a = \frac{4b+c}{r}, b = a \cdot c \Rightarrow b = \frac{4bc+c^r}{r}
 \end{aligned}$$

$$\begin{aligned}
 & \Rightarrow 4b^r - 4bc - c^r = 0 \Rightarrow (4b-4c)(4b+c) = 0 \Rightarrow \frac{b+c}{4} \leq b = -\frac{1}{4}c \\
 & \Rightarrow q = \frac{c}{b} = -4 \Rightarrow \frac{a}{a^r} = q^r = (-4)^r = -4^r
 \end{aligned}$$

$$\begin{aligned}
 & \frac{aq^d}{a^r q^c} = \frac{aq}{a^r} = r \Rightarrow \frac{q^r}{a^r} = \frac{aq}{a^r} = r \Rightarrow q^r = raq = 4a^r \\
 & \Rightarrow 4a^r - aq - q^r = 0 \Rightarrow a^r - aq - \frac{q^r}{4} = 0 \Rightarrow (a-\frac{q}{4})(a+q) = 0 \Rightarrow a = \frac{q}{4} \text{ or } a = -q \\
 & \Rightarrow \frac{a^r}{aq} = \frac{a}{q} \Rightarrow a = q \Rightarrow \left[1 \right] \\
 & \Rightarrow \frac{a^r}{aq} = \frac{a}{q} \Rightarrow a = -\frac{1}{4}q \Rightarrow \left[-\frac{1}{4} \right]
 \end{aligned}$$

$$\begin{aligned}
 & a \cdot a^r = a^r \Rightarrow r\sqrt{a} = \sqrt{a^r} \Rightarrow r\sqrt{a} = \sqrt{a^r} \Rightarrow \sqrt{r^2} = \sqrt{a^r} \Rightarrow a^r = r^2 \Rightarrow a = r \\
 & \Rightarrow q = \frac{a}{a^r} = \frac{r}{r^2} = \frac{1}{r} \Rightarrow a = \frac{a^r}{q^c} = \frac{r}{r^2} = \frac{1}{r} \\
 & \frac{1}{r} = \frac{1}{c} \Rightarrow \left[\frac{1}{4} \right]
 \end{aligned}$$