

$$11 - 9a = 1$$

$$9a + 1 = 11$$

عدد آخری = ۱۱

عدد اول = ۹

$$11^2 = 9^2 = 81 \rightarrow \text{آخرین عضو دسته ۹}$$

$$9a + 1 = 11 \rightarrow \text{آخرین عضو دسته ۹} \rightarrow 9a + 1 = 11$$

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$$\begin{matrix} 1, \dots, 9 & 10, \dots, 18 & 19, \dots, 27 & 28, \dots, 36 & 37, \dots, 45 \\ (1) & (2) & (3) & (4) & (5) \end{matrix}$$

$$\frac{11 + 37}{2} = 24$$

$$a_0, a_1, a_2, a_3$$

$$a_1, a_2, a_3$$

$$a_2, a_3, a_4$$

$$s_1 = 1 + 1 + (1+1) + 1 + (1+1) + 1 + (1+1) + 1 = 19 \Rightarrow a = 19$$

$$a_n = \left[\frac{n}{k+1} \right] - 1 \Rightarrow \frac{n}{k+1} = 2 \Rightarrow \left[\frac{k-1}{k+1} \right] \Rightarrow k=0 \Rightarrow -1$$

$$-1$$

$$\frac{1}{a} \times (-1) = -\frac{1}{a} \quad a_n = -\frac{n}{a} + b_n + c \quad a_d = -a + a_n + c = 1 \Rightarrow ab + c = 1$$

$$a_v = -\frac{1}{a} + vb + c = 1 \Rightarrow vb + c = 1 \Rightarrow 2b + 1 - 1 = 1 \quad b = 1 \quad c = 1$$

$$a_n = -\frac{n}{a} + c_n - 1 \quad a_d = \frac{1}{a} + 1 - 1 = 1 \quad a_v = -\frac{1}{a} + 1 - 1 = 1$$

$$a_v = t_v \quad a_d = t_d \quad d(t) = \frac{1}{a} d(a) \quad \frac{a_v - a_d}{a} = \frac{1}{a}$$

$$\frac{t_v - t_d}{a} = \frac{1}{a} \quad d(a) = \frac{1}{a} d(t) \Rightarrow a \times \frac{1}{a} d(t) = 1 \times d(t)$$

$$\gamma(a+d)^r = \alpha a^r + 1 \cdot ad + \gamma a^r + \gamma ad \Rightarrow \gamma d^r = \gamma a^r + ad$$

$$\rightarrow \gamma a^r + \gamma ad + \gamma a^r$$

$$\frac{a_e}{d} = \frac{a+cd}{d} = \frac{a}{d} + \gamma \Rightarrow \frac{a}{d} + \gamma = \gamma \Rightarrow \gamma + \gamma = \gamma \Rightarrow \gamma + \gamma - \gamma = 0$$

$$-\frac{1 \pm \sqrt{1+\epsilon}}{\gamma} < \frac{\gamma}{\gamma} \quad \frac{a_e}{d} < \frac{\gamma}{\gamma} \quad \checkmark$$

$$b-d, b, b+d \quad b, \frac{b-d}{\gamma}, \frac{b+d}{\gamma} \quad \frac{b^r + bd}{\epsilon} = \frac{b^r - \gamma db + d^r}{\epsilon} \Rightarrow d^r - \gamma db = 0$$

$$\Rightarrow d(d - \gamma b) = 0 \Rightarrow d - \gamma b = 0 \Rightarrow d = \gamma b \quad b, \frac{b \gamma b}{\gamma}, \frac{b \gamma b}{\gamma}$$

$$b, -b, b \Rightarrow q = -1 \quad \gamma q = -\gamma \quad \checkmark$$

$$\alpha, aq, aq^r \quad \gamma aq, \gamma a, aq^r \quad \left. \begin{array}{l} aq^r + \gamma a - \epsilon = 0 \\ \gamma aq + aq^r = \gamma a \Rightarrow \gamma q + q^r = \gamma \end{array} \right\}$$

$$-\frac{\gamma \pm \sqrt{\gamma + \gamma}}{\gamma} < 1 \quad \checkmark \quad \Rightarrow \frac{aq^r}{aq^r} = q^r = -\epsilon = -\gamma \quad \checkmark$$

$$\frac{aq^r}{aq^r} + \frac{aq}{a^r} = \gamma \Rightarrow \frac{q}{a^r} + \frac{q}{a} = \gamma \quad \frac{a^r}{aq} = \frac{a}{q} \quad \frac{q^r}{a^r} + \frac{q}{a} - \gamma = 0$$

$$\left(\frac{q}{a}\right)^r + \frac{q}{a} - \gamma = 0 \Rightarrow \frac{q}{a} = \frac{-1 \pm \sqrt{1+\gamma}}{\gamma} < \frac{1}{\gamma} \Rightarrow \frac{q}{a} < \frac{1}{\gamma} \quad \checkmark$$

$$(aq^r)^r = aq^r \times aq^r \Rightarrow a^r q^r = aq^r \times aq^r \Rightarrow aq^r = q^r \Rightarrow \gamma V = q^r$$

$$\Rightarrow q = \sqrt{\gamma V} \Rightarrow aq^r = \gamma V \Rightarrow \gamma \gamma a = \gamma V \Rightarrow a = \frac{1}{\gamma V}$$

$$\frac{\gamma V}{\omega \epsilon} - \frac{\gamma}{\omega \epsilon} = \frac{\gamma a}{\omega \gamma} \quad a_\omega = \gamma V \rightarrow aq^r = \gamma V \rightarrow (aq)q^r = \gamma V \rightarrow q^r = \gamma V \rightarrow q = \gamma$$

$$aq = 1 \xrightarrow{q = \gamma} a = \frac{1}{\gamma}$$

$$\left| \frac{1}{\gamma} - a \right| = \left| \frac{1}{\gamma} - \frac{1}{\gamma} \right| = \frac{1}{\gamma}$$