

نام و نام خانوادگی بهینا مبینا پاسخنامه تشریحی تکلیف شماره ۱۷ کلاس ۱۹، ۷۵ آفرین! هم سیر A

آخرین عدد دهم $\rightarrow 1, 4, 9, \dots, n^2$

آخرین عدد دهم $9^2 = 81 \rightarrow$

اولین عدد دهم $8^2 + 1 = 65 \rightarrow$

رابطه حسابی $x = \frac{81 + 65}{2} = 73$ ✓

آخرین عدد دهم $\rightarrow$

در الگو داریم $\Rightarrow \{1, \dots, 12\}, \{13, \dots, 24\}, \{25, \dots, 36\}, \{37, \dots, 48\}, \{49, \dots, 60\}$

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$\frac{a_1 + a_2 + \dots + a_n}{n} = \frac{a_1 + a_n}{2} = \frac{121 + 3 \times 121}{2} = 242$ ✓

$$a_0 + a_1 + \dots + a_q = 1 + r + (1+a)r + r + (1+a)r + r + \dots + (1+a)r + 1$$

$$= rQ + ra = 1q \Rightarrow a = -r \checkmark$$

$$\underbrace{a_r + a_{r+1} + \dots + a_{r+q}}_{a + [x]} = r \cdot (a+1) + 1(a+r) = 1 \cdot a + 1$$

$$a + [x] = 1 + a \quad \left\{ \begin{array}{l} a + [x] = a + r \\ \end{array} \right.$$

$$= -r + 1 = -r \checkmark$$

(r)

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$$d_n = an^r + bn + c$$

$$\Rightarrow d_a = -\frac{r\omega}{a} + ab + c = 1r$$

$$d_v = -\frac{r\omega}{a} + vb + c = 1v, r$$

$$\Rightarrow b = r \quad c = -1$$

$$+a = \frac{1}{v.} (-1r) = -\frac{1}{a}$$

$$dn = -\frac{n}{\omega} + rn - 1$$

$$\frac{d_{1a}}{d_1} = \frac{1r}{r, 1} = \omega$$

$$\left. \begin{array}{l} \text{دنيا} \rightarrow a \\ \text{الله} \rightarrow b \end{array} \right\} \begin{array}{l} a_r = b_r \\ a_n = b_v \end{array} \Rightarrow a_n - a_r = b_v - b_r \Rightarrow r d = \omega c$$

قد رشت با b

$$d = \frac{\omega c}{r}$$

$$b_{10} = 0 = 1 \cdot c + b_0 \Rightarrow b_0 = -1 \cdot c$$

$$\frac{b_{10}}{d} = \frac{-1 \cdot c}{\frac{\omega c}{r}} = \frac{-1 \cdot c}{\omega c} = -\frac{1}{\omega}$$

برابر

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$$q(a+d)^r = a(a+rd)a + r(a+rd)a =, \quad qa^r + qd^r + 1rad = a^r + 1 \cdot ad + r a^r + r ad$$

$$\Rightarrow \cancel{qa^r} + a^r + ad + \cancel{qd^r} = 0 \quad \left\{ \begin{array}{l} \left(\frac{a}{d} \right)^r = \frac{a+rd}{d} = r + \left(\frac{a}{d} \right) \end{array} \right.$$

$$\frac{ra^r}{d^r} + \frac{ad}{d^r} - \frac{qd^r}{d^r} = \frac{0}{d^r} \quad (d^r \neq 0) \Rightarrow r \left(\frac{a}{d} \right)^r + \left(\frac{a}{d} \right) - q$$

$$\rightarrow \frac{a}{d} = \begin{cases} -r \\ \frac{r}{r} \end{cases} \Rightarrow r + \frac{a}{d} = \begin{cases} 1 \checkmark \\ r, a \checkmark \end{cases}$$

$$\Gamma b = a + c = b = \frac{a+c}{\Gamma}$$

$$\frac{a^r}{\cancel{x}} = \frac{bc}{\cancel{x}}$$

$$r_a = (a + c) \cdot c = r_a - ac - c = 0$$

$$\{q\} = \frac{\sigma/2}{v/2} = \frac{\sigma}{v}$$

$$\rightarrow \frac{ra^2}{c^2} - \frac{ac}{c^2} - \frac{c}{c^2} = \frac{0}{c^2} \Rightarrow r\left(\frac{a}{c}\right)^2 - \left(\frac{a}{c}\right) - 1 = 0$$

جملات متعینند!

جملات متنی نریند!

$$\frac{a}{c} = \begin{cases} 1 \\ -\frac{1}{2} \end{cases}$$

$$\gamma q = \gamma \frac{q}{c} = \begin{cases} \gamma v & \times \\ -\gamma v & \checkmark \end{cases}$$

$$\begin{aligned}
 & r_a = r_b + c \Rightarrow c = r_a - r_b \quad \star \quad \left. \begin{aligned} & b^r = a(r_a - r_b) = r_a^r - r_{ab} \\ & b^r = ac \quad \star \end{aligned} \right\} \\
 & \Rightarrow r_a^r - r_{ab} - b^r = 0 \xrightarrow{b^r \neq 0} \frac{r_a^r}{b^r} - \frac{r_{ab}}{b^r} - \frac{b^r}{b^r} = r\left(\frac{a}{b}\right)^r - r\left(\frac{a}{b}\right) - 1 \\
 & \Rightarrow \frac{a}{b} = \begin{cases} 1 & \text{XÜÜE} \\ -\frac{1}{r} \end{cases} \quad \frac{a_q}{a_q} = q^r = \left(\frac{a}{b}\right)^r = \begin{cases} 1 & \text{X} \\ -\frac{1}{q^r} \end{cases} \quad \checkmark
 \end{aligned}$$

$$\begin{aligned}
 & \frac{a_q^a}{(a_q)^r} + \frac{a_q}{a^r} = \frac{q^r}{a^r} + \frac{q}{a} = r \Rightarrow \left(\frac{q}{a}\right)^r + \frac{q}{a} - r = 0 \\
 & \left(\frac{q}{a}\right) = \begin{cases} 1 \\ -r \end{cases} \quad \frac{a^r}{a_r} = \frac{a^r}{a_q} = \left(\frac{a}{q}\right) = \begin{cases} 1 & \checkmark \\ -\frac{1}{r} & \checkmark \end{cases}
 \end{aligned}$$

$$\begin{aligned}
 & \sqrt{a_r} = a_r \Rightarrow \sqrt{a_q^r} = a_q^r \Rightarrow a_q^r = a_q^r \xrightarrow{q^r a \neq 0} 1 = a_q \\
 & \frac{a_a}{a_q} = \frac{a_q^r}{a_q} = q^r = r \Rightarrow \boxed{q = r} \rightarrow a_q = 1 \Rightarrow a = \frac{1}{r} \quad \checkmark \\
 & \frac{1}{r} - a = \frac{1}{r} - \frac{1}{r} = \frac{1}{q} \quad \checkmark
 \end{aligned}$$