

B سرویس اخوان، دهم پسر

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تکلیف شماره ۱۳

Subject .

Year.

Month.

Day.

$$a_1 = \epsilon, \quad a_2 = q_1, \quad q_1 - \epsilon = r_1 = r_d$$

-1

$$z) d = \frac{r_1}{r} = V, \quad r_1 = \epsilon \cdot (n-1) \cdot V$$

$$z) 191 = V(n-1) \quad z) n-1 = 25 \quad z) n = 26$$

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$$a_n = Vn + 3, \quad 1.1, 1.8, \dots, 99V$$

$$\frac{99V - 1.1}{V} + 1 = 129$$

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129

-2

$$a_{19} + a_{10} + a_{11} = -9 \times 10 + 12 \quad z) a_{19} + a_{10} + a_{11} = -VA$$

-3

$$a_{19} + a_{11} = 2a_{10} \quad z) a_{19} + a_{10} + a_{11} = 3a_{10} \quad z) a_{10} = \frac{-VA}{3} = -29$$

$$a_1 + a_8 + a_9 = -9 \times 9 + 12 \quad z) a_1 + a_8 + a_9 = -25$$

$$a_1 + a_9 = 2a_8 \quad z) a_1 + a_8 + a_9 = 3a_8 \quad z) a_8 = \frac{-25}{3} = -\Lambda$$

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$$a_{10} + a_8 = -29 - \Lambda = -25$$

$$a_r = r^x - 1$$

$$a_{11} = r^{x+1} - 1 \quad z) \frac{r^x - 1 + r^{x+1} - r^x}{r} = r^{x+1} \quad z) r^x - 1 + r^{x+1} - r^x = r^{x+1}$$

25

$$a_{12} = r^{x+2} - 1$$

$$r^x(1+r^x) - \epsilon = r^{x+2} \quad z) r^x(1+r^x) - \epsilon = r^{x+2}$$

$$r^x(1+r^x) = r^{x+2} + \epsilon \quad z) r^x(1+r^x) = r^{x+2} + r^2$$

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$$r^x(1+r^x) = r^2(r^x + 1) \quad z) r^x = r^2 \quad z) x = 2$$

$$r^{2 \times 2} - 1, r^{2 \times 1} - 1, r^2 - 1 \rightarrow 13, 1, 3 \Rightarrow 13 + 1 + 3 = 17$$

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$$a_{1r} - a_{1i} = \delta$$

$$a_{1r} + a_{1i} = 2r\delta$$

$$\Rightarrow a_{1i} = 1 \quad \Rightarrow r\delta = \delta = d \quad \checkmark$$

$$a_{1r} = a_{1i} + 11d \Rightarrow a_{1r} = 1 + 11 \times r\delta = \boxed{12r\delta} \quad \checkmark$$

$$\frac{\frac{\delta}{r}(ra_1 + \epsilon d)}{\frac{\delta}{r}(ra_q + \epsilon d)} = \frac{1}{r} \Rightarrow ra_1 + 11d = ra_q + \epsilon d$$

$$\Rightarrow ra_1 + 11d = r(a_1 + \delta d) + \epsilon d \Rightarrow ra_1 + 11d = ra_1 + 11\delta d$$

$$\epsilon a_1 = r\delta \Rightarrow d = ra_1 \quad \frac{ar}{a_1} = \frac{a+d}{a} \Rightarrow \frac{ra}{a} = \boxed{r} \quad \checkmark$$

$$t_a = t_{a+d}, t_q = t_{q+\epsilon d} \Rightarrow d = \delta$$

$$t_q^r - t_{\delta}^r = (t_v + r\delta)^r - (t_v - r\delta)^r = (t_v + 1)^r - (t_v - 1)^r = \epsilon \cdot t_v$$

$$\Rightarrow \frac{\epsilon \cdot t_v}{t_v} = \boxed{\epsilon} \quad \checkmark$$

$$\frac{r\sqrt{r} - (r(1 - q\sqrt{r}))}{1r + 1} = \frac{r\sqrt{r} - r + 11\sqrt{r}}{1r} = \frac{11\sqrt{r}}{1r} = \boxed{\sqrt{r}} \quad \checkmark$$

$$d = \frac{rr - r}{(\epsilon n - r) + 1} \Rightarrow d = \frac{r_0}{\epsilon n - r} \quad \checkmark$$

$$\epsilon + d\epsilon n = 11 \Rightarrow \epsilon \frac{r \cdot n}{\epsilon n - r} = 11 \Rightarrow \frac{r \cdot n}{\epsilon n - r} = 11$$

$$\Rightarrow r \cdot n = 11(\epsilon n - r) \Rightarrow 11 = \frac{r}{\epsilon} \Rightarrow \boxed{11} \quad \checkmark$$

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

~~r CSMA~~

-1-

$$n + n + 1 = r, \quad \Rightarrow n = 1 \quad \left\{ \begin{array}{l} a_n = r a \frac{n}{r} \Rightarrow a_1 = r a_r \end{array} \right.$$

$$\Rightarrow a_1 + v d = r(a_1 + r d) \Rightarrow a_1 + v d = r a_1 + r^2 d$$

$$\Rightarrow -r a_1 = r d \Rightarrow a_1 = -d$$

$$a_1 + (n' - 1)d = 0 \quad \Rightarrow -d + d n' - d = 0$$

$$\Rightarrow -r d + d n' = 0 \Rightarrow d(-r + n') = 0 \Rightarrow n' = r$$

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