

$$t_1 = r_0 \quad d = \frac{r_1 r_0}{r-1} = \frac{r_1}{r} = V$$

$$T_f = r_1$$

$$t_1 + (n-1)d$$

$$r_0 + (n-1)V = r_0 n$$

$$r_0 + Vn - V = r_0 n$$

$$Vn = 1Vn$$

$$n = r_0$$

$$a_1 = 101 \quad d = V$$

$$a_n = 99V$$

$$\frac{100}{r} \left| \frac{V}{r} \right|$$

$$\frac{r_0}{r}$$

$$\frac{r_1}{r}$$

$$\frac{999}{r} \left| \frac{V}{r} \right|$$

$$\frac{V}{r}$$

$$\frac{r_1}{r}$$

$$\frac{19}{r}$$

$$a_1 + (n-1)d = 99V$$

$$101 + (n-1)V = 99V$$

$$Vn - V = 99V - 101$$

$$Vn = 90V + 1$$

$$n = 90$$

$$a_{n-1} + a_{n+1} + a_{n+2} = -9n + 12 \Rightarrow a_{n+2} = 3(-9n + 12)$$

$$a_{11} + a_{11} = ?$$

$$a_n = \frac{-11n + 36 - 2d}{d}$$

$$d = n \text{ ضرب} \rightarrow d = -11$$

$$-d_{11} = -309 + V^2 = -23f$$

$$a_{11} = -11f + V^2 = -V^2 \rightarrow -23f - V^2 = -309$$

$$t_r = r^2 - 1 = t_n - t_r = t_{1r} - t_1$$

$$t_1 = r^{r+1}$$

$$t_{1r} = r^{r+1} - 3$$

$$r^2 = y$$

$$t_r + t_1 + t_{1r} = 3t_1 =$$

$$3(r^2) = \frac{r^2}{r} \leftarrow$$

$$\Rightarrow \begin{cases} r^2 - y + 1 = y^2 - 3 - 2y \\ y^2 - 3y - 4 = 0 \\ (y-4)(y+1) = 0 \end{cases}$$

$$\Rightarrow y = 4$$

$$r = 2$$

$$t_{1r} - t_{10} = A$$

$$t_{1r} + t_{10} = 1A$$

$$2t_{1r} = 30$$

$$t_{1r} = 15 \rightarrow t_{10} = 10$$

$$d = \frac{1A - 10}{r} = \frac{A}{r}$$

$$t_{r1} = t_{10} + 11d \Rightarrow 10 + 11\left(\frac{A}{r}\right) = \frac{r_0}{r} + \frac{11A}{r} = \frac{V A}{r}$$

$$t_1 + t_2 + t_3 + t_4 + t_5 = \frac{1}{p} (t_2 + t_3 + t_4 + t_5 + t_1)$$

$$\cancel{t_1} = \frac{1}{p} (\cancel{t_1}) \rightarrow t_1 = p t_1 \rightarrow t_1 + v d = p t_1 + \cancel{t_1} \quad t_1 = p t_1$$

$$p t_1 = d \rightarrow t_1 = \frac{d}{p}$$

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$$t_n = t_{n-1} + d \rightarrow t_n - t_{n-1} = d \rightarrow p d = d \rightarrow d = d$$

$$t_9 - t_5 = 26 t_v \rightarrow (t_9 - t_5) (t_9 + t_5) = 26 t_v = \frac{f_0}{p} t_v$$

$$\underbrace{(t_9 - t_5)}_{\frac{f_0}{p}} \underbrace{(t_9 + t_5)}_{p t_v} = 26 t_v$$

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$$t_1 = 2(1 - \sqrt{p})$$

$$t_n = 2 + \sqrt{p}$$

$$t_{n+1} = 2(1 - \sqrt{p})$$

$$2 + \sqrt{p} - 2 + 1 + \sqrt{p} = 1 + d$$

$$1 + \sqrt{p} = 1 + d$$

$$d = \sqrt{p}$$

$$t_{n+1} - t_n = 1 + d$$

$$2 + 1 + \sqrt{p} - 2 - \sqrt{p} = 1 + d$$

$$-1 + \sqrt{p} = 1 + d$$

$$d = -\sqrt{p}$$

ارفاق

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$$t_n = 11$$

$$t_{n-1} = 2$$

$$t_m = 22$$

$$t_m - t_1 \Rightarrow \frac{t_m - t_1}{m - 1} = d$$

$$t_1 + (n-1)d = 11$$

$$2 + (n-1)d = 11$$

$$2 + \frac{p(n-1)}{n-1} = 11$$

$$\frac{p(n-1)}{n-1} = 9 \rightarrow p(n-1) = 9(n-1)$$

$$p(n-1) = 9(n-1)$$

مهرت سکه اشکبار
غير قابل قبول

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$$t_n + t_{n+1} = t_3 + t_{14}$$

$$n + n + 1 = 20$$

$$2n = 19$$

$$n = 1$$

$$t_n = 2(t_{n/2})$$

$$t_m = 0$$

$$m = ?$$

$$t_1 = 2(t_2)$$

$$t_2 + d = 2 t_2 \rightarrow t_2 = d \rightarrow t_2 = t_1 + d$$

$$t_m = t_1 + (m-1)d$$

$$0 = d + (m-1)d$$

$$0 = d(m-1)$$

m = 2

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$$n=1 \rightarrow a_1 + a_2 + a_3 = 4 \quad \text{کمترین}$$

$$n=2 \rightarrow a_1 + a_2 + a_3 = 0 \rightarrow a_1 - a_2 = -4$$

سوال ۳

$$a_1 + \varepsilon d - a_1 - 2d = -4 \rightarrow 2d = -4 \rightarrow d = -2$$

$$a_1 + a_2 + a_3 = 4 \rightarrow 3a_1 + d + 2d + 3d = 4 \rightarrow 3a_1 = 11 \rightarrow$$

$$a_1 = 4$$

$$a_{11} + a_1 = a_1 + a_1 + 12d + 3d$$

$$2a_1 + 15d = 2(4) + 15(-2) = -26$$

سوال ۴ $n-3$ واسطی حسابی درج شش است پس 32 صمدی $n-1$ است!

$$a_{n-1} = \cancel{a_1} + (n-2)d = 32 \rightarrow (n-2)d = 32 \rightarrow (2n-1)d = 15$$

$$a_{n+1} = \cancel{a_1} + nd = 11 \rightarrow nd = 9$$

واسطی n ام صمدی $n+1$ است!

$$2nd - d = 15 \xrightarrow{nd=9}$$

$$\begin{cases} d=3 \\ n=3 \end{cases}$$