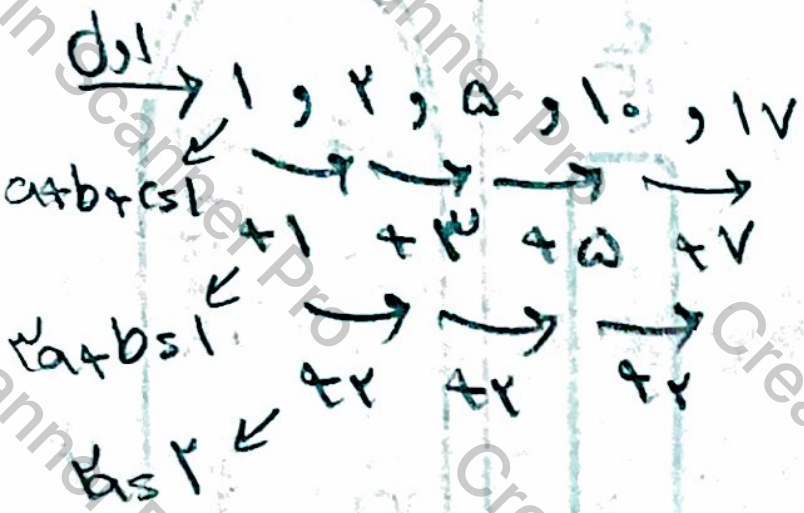


# یستادائی تکیلی ۱۷ یجیته (مزان)

۱۷، ۱۶، ۱۵، ۱۴، ۱۳، ۱۲، ۱۱، ۱۰، ۹، ۸، ۷، ۶، ۵، ۴، ۳، ۲، ۱



$$\begin{aligned} a &= 1 \\ b &= 2 \\ c &= 2 \end{aligned} \rightarrow \begin{aligned} &1x^2 - 4x + 2 \\ &\xrightarrow{ns} 11 = 18 + 2 = 95 \end{aligned}$$

آفری  $\rightarrow 1, 4, 9, 16, 25 \rightarrow x^2 \xrightarrow{ns} 11$

$$\frac{11 + 9 + 5}{2} = 12.5$$

1, 2, 3  
4, 5, 6, 7, 8, 9, 10, 11, 12  
13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

$$ns \frac{243 - 121}{2} + 1 = 242$$

$$\rightarrow \frac{243}{2} (184) = 5811.9$$

$$\xrightarrow{\text{میانگین}} \frac{5811.9}{243} = 242$$

$$\frac{243 - 121}{2} = 121$$

سوال ۳ صفی بری:

$$a \omega s 14 \quad a n^2 + b n + c = -\frac{1}{\omega} n^2 + b n + c$$

$$a r s 1712$$

$$a = \frac{1}{\omega} \times (-a \omega) = \frac{1}{\omega} \times -14 = -\frac{1}{\omega}$$

$$a \omega s 14$$

$$a_1 s 1712$$

$$\frac{14}{2 \times 12} = 5$$

$$\xrightarrow{ns} -\frac{1}{\omega} (14) + ab + c = 14 \rightarrow ab + c = 19$$

$$\xrightarrow{ns} -\frac{1}{\omega} (1712) + ab + c = 1712 \rightarrow 7b + c = 27$$

$$\rightarrow a = -\frac{1}{\omega}$$

$$b = 4$$

$$c = -1$$



2

$$a_n = \begin{cases} n^2, & n \leq 4 \\ -2n+4, & n \leq 4 \\ \left\lfloor \frac{n}{4} \right\rfloor + a, & n \leq 4 \end{cases} \begin{matrix} \textcircled{1} \rightarrow a_0, a_4, a_4, a_4 \\ \textcircled{2} \rightarrow a_1, a_4, a_4 \\ \textcircled{3} \rightarrow a_2, a_4, a_4 \end{matrix}$$

$$\textcircled{1} \Rightarrow a_0 = 1, a_4 = 4, a_4 = 4, a_4 = 4$$

$$\textcircled{2} \Rightarrow a_1 = -2(1)+4=2, a_4 = -2(1)+4=2, a_4 = -2(1)+4=2$$

$$\textcircled{3} \Rightarrow a_2 = \left\lfloor \frac{2}{4} \right\rfloor + a = 1, a_4 = \left\lfloor \frac{4}{4} \right\rfloor + a = 1, a_4 = \left\lfloor \frac{4}{4} \right\rfloor + a = 1$$

$$S_1 = 1 + 4 + a_2 + 2 + 2 + a_4 + 2 + 0 + a_4 + 1 = 14$$

$$a_2 + a_4 + a_4 = 2 \rightarrow 2a + 4 = 2 \rightarrow a = -2$$

$$S_{a_2 + a_4 + a_4} = a_n = \left\lfloor \frac{n}{4} \right\rfloor + (-2)$$

$$a_n = \left\lfloor \frac{n}{4} + \frac{n-2}{4} \right\rfloor - 2 = \left\lfloor \frac{n+2}{4} \right\rfloor \rightarrow \text{برابر با صفر چون } n-2 < n+2$$

فقط برای صفر سازی با 1-ی شور و برای یک

$$S = a_2 + a_4 + a_4 + \dots + a_4$$

$$S = (1) + (-1) + 0 + 0 + \dots + 0 = -2$$

so

$$a_1 = t_r \rightarrow a_1 + r d = r p + q$$

$$a_1 = t_v \rightarrow a_1 + v d = v p + q$$

$$t_{10} s_0 = 10 p + q \text{ so } \rightarrow \boxed{q = -10 p} \quad \star$$

$$a_1 - a_1 = t_v - t_r$$

$$a_1 + v d - a_1 + r d = v p + q - r p - q$$

$$r d = v p \rightarrow d = \frac{v}{r} p$$

$$t_{10} = 10 p + q - 10 p = q \rightarrow \frac{q}{p} = r \quad \star$$

$$a_1 = a$$

$$d$$

$$q a^r = \omega a^r a + r a^r a$$

$$q (a+d)^r = \omega (a+r d) (a) + r (a+d) (a)$$

$$q (a^r + b^r + r a b) = \omega (a^r + r a d) + r (a^r + a d)$$

$$q a^r + q b^r + r a b = \omega a^r + \omega r a d + r a^r + r a d$$

$$r a^r + r a b$$

$$r a^r + a b - q b^r = 0 \rightarrow (r a - r) (a + r d) = 0$$

$$\frac{a_1 + r d}{d}$$

$$\left[ \begin{array}{l} \frac{r d + r d}{d} = \frac{a}{r} \\ - \frac{r d + r d}{d} = 1 \end{array} \right]$$

✓

$$a, b, c \rightarrow n, n+d, n+2d$$

حسابی

$$\frac{n+2d}{2}, \frac{n}{2}, n+d$$

فردی

$$\rightarrow \frac{\frac{n+2d}{2}}{\frac{a}{2}} = \frac{\frac{a}{2}}{a+d} \rightarrow -\frac{3a}{2} \text{ and } \frac{a}{b} = \frac{a}{a+b}$$

$$\rightarrow \boxed{-1}$$

$$a, b, c \rightarrow n, nr, nr^2 \rightarrow r b^2 \text{ same}$$

①

$$\hookrightarrow 2nr, 2n, nr^2 \rightarrow 4n \text{ and } nr^2 + nr$$

$$4nr + nr^2 \rightarrow r^2 + 4r - 4 = 0 \rightarrow (r-1)(r+4) = 0$$

بماذا  $r = 1$  و  $r = -4$

$$\Rightarrow \frac{a}{a} = r^3 = (-4)^3 = -64$$

مسئله 9 منتهی

②

$$a^2 = \sqrt{a} \rightarrow (a^2)^2 = a^4 \rightarrow a^2 \cdot a^2 \rightarrow a^2 \cdot a^2 \rightarrow a^4$$

$$a \omega = r^2 \rightarrow a^2 r^2 = r^4 \rightarrow (a^2) r^2 = r^4 \rightarrow a^2 = r^2$$

$$\left| \frac{1}{2} - a \right| = \left| \frac{1}{2} - \frac{1}{2} \right| = \boxed{\frac{1}{2}}$$

$a = 1$

$c = 1$

④

$$\frac{a q^w}{(a q^r)^r} = \frac{a^r q^w}{a^r \times q^r} = \frac{q^r}{a^r}$$

$$\frac{q^r}{a^r} = \frac{a q^r}{a^r} = \frac{a q^r}{a}$$

$$\left(\frac{q}{a}\right)^r \times \frac{a}{a} = 150$$

$$\left(\frac{q}{a} + 1\right) \left(\frac{q}{a} - 1\right) = 0 \quad \uparrow \quad \frac{q}{a} = 1 \rightarrow \frac{a}{q} = 1$$

$$\rightarrow \frac{q}{a} = -1 \rightarrow \frac{a}{q} = -1$$