

$$t_n = 5, 9, 13, 17$$

$$t_n = f_n + 1$$

$$f_{n+1}$$

$$t_{10} = f_{10} + 1 \Rightarrow \textcircled{f_{10}}$$

$$t_n = 9, 10, 11, 12, \dots$$

$$t_n = f_n + 1$$

$$t_{10} = f_{10} \Rightarrow S = \frac{(t_1 + t_{10}) \cdot 10}{2} = 150$$

$$\left. \begin{array}{l} t_{19} = 118 \\ t_{12} = 117 \\ t_{11} = 116 \\ t_{10} = 115 \end{array} \right\} 118 + 117 + 116 + 115 = \textcircled{466} = t_n + t_{12} + t_{11} + t_{10} \leftarrow \text{بجای عددی هست}$$

$$1 + \sqrt{2}, 2, 2 - \sqrt{2}$$

$$d = t_2 - t_1 \Rightarrow 2 - 1 - \sqrt{2} = \textcircled{1 - \sqrt{2}}$$

$$t_{10} - t_{12} = 2d \Rightarrow 2(1 - \sqrt{2}) = \textcircled{2 - 2\sqrt{2}}$$

$$a_n = 5^{2x}, 2, 15^x, 5^y \Rightarrow 9x \cdot 5^{2x} = 5^{2x} + 5^y \Rightarrow 5x \cdot 5^{2x} = 5^y$$

$$b_n = x, 2, y \Rightarrow x + y = 5 \Rightarrow 2x + 1 = 5 \Rightarrow x = 1$$

$$y = 3 \Rightarrow \left. \begin{array}{l} x = 1 \\ y = 3 \end{array} \right\} xy = \textcircled{3}$$

$$2x = 5, 2x - 1, 9x \dots \Rightarrow 2x - 1 = 8x - 1 \Rightarrow 2x = 1$$

$$-2, 0, 2, \dots \Rightarrow \textcircled{6} \Rightarrow t_6$$

$$\textcircled{x = \frac{1}{2}}$$

$t_1 \quad 0 \quad 0 \quad 0 \quad t_5$
 ← واسطه میان دو سر

$$a_n = 3, \omega, v \Rightarrow t_n = 2n + 1 \Rightarrow t_r = 41$$

$$b_n = 2, \omega, n \Rightarrow t_n = n - 1 \Rightarrow t_r = 09$$

$$\text{جمله مشترک} = 5, 11, \dots \Rightarrow 6n - 1$$

$$6n - 1 \leq 41 \Rightarrow 6n \leq 42 \Rightarrow n \leq 7 \Rightarrow \text{مجموع مشترک}$$

$$a_1 + a_r + a_s = 21 \Rightarrow 3t_1 + 3d = 21 \Rightarrow t_1 + d = 7 \Rightarrow a_r$$

$$a_1 + a_r + a_\omega = 105 \Rightarrow 3t_1 + 9d = 105 \Rightarrow t_1 + 3d = 35 \Rightarrow a_\omega$$

$$-21, 7, 35, \dots \Rightarrow a_r - a_r + a_1 = 35 - 7 + 21 = 49 \quad \text{✓}$$

$$a_1 + a_r + a_s = 15 \Rightarrow 3t_1 + 3d = 15 \Rightarrow t_1 + d = 5$$

$$a_r + a_\omega = 25 \Rightarrow 3t_1 + 9d = 25 \Rightarrow t_1 + 3d = 25/3$$

$$0d = 10 \Rightarrow d = 10$$

$$t_1 = 5$$

$$t_{10} = 5 + 9 \times 9 = 89$$

$$s_9 = 9s^c \Rightarrow 9t_1 + 36d = 9vt_1 + 36vd \Rightarrow ut_1 = 9d \Rightarrow d = 2t_1$$

$$\left. \begin{aligned} a_r &= r \cdot t_1 + 19 \cdot d = 80 \cdot t_1 \\ a_v &= v \cdot t_1 + 13 \cdot d = 89 \cdot t_1 \end{aligned} \right\} \frac{f_{10}}{f_9} = 111$$

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$$t_1 = 11 \Rightarrow t_{10} = 11 + 9d \Rightarrow 9d = 89 - 11 = 78 \Rightarrow d = 8.66$$

$$t_2 = 11 + 10 \Rightarrow 21$$

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$$t_2 = 21 + 3d = 40 \Rightarrow d = 9$$

$$r_n - \omega(n-1) = 12 \quad n=1 \Rightarrow 0 \quad n=5 \Rightarrow 12$$