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$$t_n = 0, 9, 13, 17 \rightarrow \varepsilon_{n+1} \quad (1)$$

$$r_{n+1} = \varepsilon(1) + 1 = 1 \quad (1)$$

$$\frac{4}{2}, \frac{12}{2}, \frac{18}{2} \rightarrow \frac{n}{2} (r a_1 + (n-1)d) = \frac{10}{2} (r(4) + (10-1)\varepsilon) \quad (2)$$

$$\Delta(12 + 18) = 2 \times 30 = 60$$

$$(r_{11} + r) = 60$$

$$r_{11} = \varepsilon(1) + r = 11 \quad (1)$$

$$\rightarrow \frac{\varepsilon}{2} (r(11) + (\varepsilon-1)\varepsilon) = r(41 + 12) = 11 \quad (1)$$

$$r + 1 + \sqrt{r} = 1 - \sqrt{r} \varepsilon d \quad (3)$$

$$\left. \begin{aligned} a_{r0} &= a_1 + r \varepsilon d \\ a_{rr} &= a_1 + r r d \end{aligned} \right\} \rightarrow r d = a_{r0} - a_{rr} = r(1 - \sqrt{r}) = r - r\sqrt{r}$$

$$a_n = a_1 + r n \varepsilon d \rightarrow a_n = a_1 + r n (r - r\sqrt{r}) \quad (4)$$

$$a_n - a_{n-1} = r \varepsilon d = r (a_n - a_{n-1}) \rightarrow r (a_n - a_{n-1}) = \varepsilon r d$$

$$a_n - a_{n-1} = \varepsilon r d \rightarrow a_n - a_{n-1} = a_n - a_{n-1} = 0$$

$$y = r n + 1 \rightarrow y = r(\varepsilon - y) + 1 \rightarrow y = 1 - r y + 1$$

$$a_b = r - n = y - r \rightarrow n + y = \varepsilon \rightarrow r y = 9 \rightarrow y = 3, n = 1$$

$$\rightarrow n y = 1 \times 3 = 3$$

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$$r_n = 1, r_{n-1}, 496$$

$$r_n - 1 = (r_n - 1) = 4n - (r_n - 1) \rightarrow r_n - 1 - r_n + 1 = 4n - r_n + 1$$

$$\rightarrow r - 1 = 4n \rightarrow n = \frac{1}{4}$$

$$a_n = -r, 0, r, \dots \rightarrow a_n = r_n - r \rightarrow a_n = r(1) - r = 0$$

$$4 = 12n = r_n - r$$

$$a_n = r, 0, r, \dots \rightarrow a_n = r_n + 1 \rightarrow r, 0, r, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100$$

$$b_n = r, 0, r, \dots \rightarrow b_n = r_n - 1 \rightarrow r, 0, r, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100$$

$$c_n = 4n + a \rightarrow 4n + a = r \rightarrow 4n = r - a \rightarrow n = \frac{r - a}{4}$$

$$a_1 + a_r + a_p = r \rightarrow n - d, n, n + d = r \rightarrow r_n = r \rightarrow n = \frac{r}{2} = a_r \quad (1)$$

$$a_1 + a_r + a_d = 1.0 \rightarrow y - r_d, y, y + r_d = 1.0 \rightarrow r_y = 1.0 \rightarrow y = \frac{r}{2} = a_r$$

$$r_d - v = r_n = d \rightarrow a_1 = v - r_n = -r \rightarrow \frac{r_d - v + (-r)}{-r} = \frac{v}{-r} = \left[-\frac{1}{r} \right]$$

$$a_1 + a_r + a_p = 1.0 \rightarrow a_1 + a_1 + d + a_1 + r_d = r_a + r_d = 1.0 \quad d = r \quad (1)$$

$$a_1 + a_d = r_d \rightarrow a_1 + r_d + a_1 + r_d = r_a + v_d = r_d \quad a_1 = r$$

$$a_1 = a_1 + (n-1)d = r + (4 \times r) = 5r$$

$$S_4 = 95r \rightarrow 4(a_1 + a_1 + d + a_1 + r_d) = r_v a_1 + r_v d = S_4 \quad (2)$$

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$$S_9 = \frac{9}{r} (a_1 + a_1 + 1d) \rightarrow S_9 = 9(a_1 + d)$$

$$\rightarrow 9S_9 = \frac{9}{r} (a_1 + a_1 + r d) \rightarrow 9(r a_1 + r d)$$

$$9(a_1 + d) = 9(r a_1 + r d) \rightarrow (a_1 + d = r a_1 + r d) \rightarrow a_1 + a_2 = 0$$

$$r a_1 + d = 0 \rightarrow r a_1 = -d \rightarrow a_1 = -\frac{d}{r}$$

$$\frac{a_r}{a_v} = \frac{-\frac{d}{r} + 19d}{-\frac{d}{r} + 4d} \Rightarrow \frac{\frac{19d}{r} - \frac{d}{r}}{\frac{19d}{r} - \frac{d}{r}} = \frac{\frac{19d}{r} - \frac{d}{r}}{\frac{19d}{r} - \frac{d}{r}} = \frac{19d}{19d} = \frac{19}{19}$$

$$a_1 = 11, a_1 + 4d = 19 \rightarrow d = 2, a_2 = 11 \rightarrow a_2 = 11 + r(1) = 19$$

$$b_2 = 19 \rightarrow b_1 = 17 \rightarrow b_1 + 3d' = 19 \rightarrow 3d' = 2 \rightarrow d' = \frac{2}{3}$$

$$b_n = 17 \rightarrow b_1 \neq 17$$

$$b_1 + (n-1)d' = 17 \rightarrow (n-1) \cdot \frac{2}{3} = 2 \rightarrow n-1 = 3 \rightarrow n = 4$$

$$\therefore b_2 = 19, b_3 = 21, b_4 = 23$$

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