

$$a_n = n^2 + \frac{n(n-1)}{2} \rightarrow x_1 = 1^2 + \frac{1(1-1)}{2} = 1 + 0 = 1$$

$$0, 1, 3, 6, \dots \quad a_n = \frac{(n-1)n}{2} \quad \frac{(n-1)n}{2} = 6 \rightarrow (n-1)n = 12$$

$$n = 11$$

$$\omega, 12, 21, \dots \quad a_n = 11n - 3 \rightarrow a_{11} = 11(11) - 3 = 121 - 3 = 118$$

$$\omega, 9, 12, \dots \quad t_n = 11n + 1 \rightarrow t_{11} = 11(11) + 1 = 121 + 1 = 122$$

$$-1, \frac{1}{2}, -\frac{1}{3}, \frac{1}{4}, \dots \quad \frac{1}{n} = \frac{1}{4} \rightarrow n = 4$$

$$b_n = (-n)^n - v(n) = -2v - 21 = -41$$

$$a_n = -2k + 11 = -41 \rightarrow \frac{-2k}{-2} = \frac{-52}{-2} \rightarrow k = 26$$

$$t_{10} - t_9 = 12 \quad t_4 - t_1 = 9 \rightarrow 20$$

$$9a + b - 4a - b = 12 \quad 4a + b - b - a = 9$$

$$5a = 12 \Rightarrow a = \frac{12}{5}$$

$$\begin{pmatrix} a_1 = 1 \\ a_2 = 1 \end{pmatrix}^n \quad a_n = n-1 \quad \begin{pmatrix} b_1 = 1 \\ b_2 = 1 \end{pmatrix}^n \quad b_n = n-1$$

$$a_1 = b_1 \rightarrow a_1 = 1 - 1 = 0 = b_1$$

$$a_2 = b_2 \rightarrow a_2 = 2 - 1 = 1 = b_2$$

$$t_n = \frac{n(n-1)}{2} \Rightarrow \frac{n(n-1)}{2} < \frac{n}{2}$$

$$11n - 1 < 9n + 9$$

$$\frac{11n}{1} < \frac{9n}{1} + 10 \rightarrow n < \frac{10}{2} \rightarrow n < 5$$

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$$t_n = 9, 9, 9, 9, 0, \dots \Rightarrow -\frac{r}{r} n^r + bn + c \Rightarrow t_n = \left(-\frac{r}{r}\right) n^r + \left(\frac{10}{r}\right) n$$

$$ra = -r \quad t_1 = -\frac{r}{r}(1) + b + c = 9 \quad \times(-1) \quad r - b - c = -10$$

$$a = -\frac{r}{r} \quad t_r = -\frac{r}{r}(r) + rb + c = 9 \quad | \quad rb + c = 10$$

$$b = \frac{10}{r} \quad c = 0$$

$$rA + \omega B = r\left(-\frac{r}{r}\right) + \omega\left(\frac{10}{r}\right) = -\frac{9}{r} + \frac{10\omega}{r} = \frac{44}{r} = 3r$$

$$t_n = -9, -8, \dots \quad r_0 = r \rightarrow a = 1 \quad 1n^r + bn + c \rightarrow t_n = 1n^r - 1n - 9$$

$$\begin{pmatrix} a_r = r \\ a_f = f \end{pmatrix} \rightarrow a_n = \omega n + r \quad t_1 = 1 + b + c = -9 \quad \times(-1) \quad r - b - c = +10$$

$$t_r = r^r + rb + c = -f \quad | \quad rb + c = -1$$

$$b = -1 \quad c = -9$$

$$1n^r - 1n - 9 = \omega n + r$$

$$n^r - 9n = 20$$

$$n = 9$$

$$t_9 = 11 - 9 - 9 = 49$$

$$a_9 = 9\omega + r = 49$$