

$t_n = (n+1) \rightarrow t_0 = (1+1) = 2 = \sqrt{4}$

$t_n = 2, 9, 16, 25, \dots$
 $t_n = n^2$

$r \times n = 12$

~~$t_0 + t_1 + t_2 + t_3 =$~~ $1, 2, 3$

~~$t_0 + t_1 + t_2 + t_3 + t_4 = 2 \times t_0$~~

~~$t_0 = t_1 + r \rightarrow t_0 = 1 + (1 \times r) \Rightarrow t_0 = 1 + r$~~

~~$2 \times t_0 = 2 \times (1+r) = 2 + 2r$~~

$t_n = 1, 10, 15, 18, \dots$

$S_n = \frac{n}{r} (r a_1 + (n-1)d)$

$S_{10} = \frac{10}{r} (r \times 1 + (10-1)d) \rightarrow 2 \times (12 + 12)$
 $24 = 2 \times 12 \Rightarrow \sqrt{12}$

$a_1 = 1 + \sqrt{r}$
 $a_r = r$
 $a_r = r - \sqrt{r}$

مجموعه اولی و دومی
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$a_r - a_1 = a_r - a_1 = d$

$d = a_r - a_1 = r - (1 + \sqrt{r}) = 1 - \sqrt{r}$

$a_n = a_1 + (n-1)d \rightarrow a_{10} - a_{11} = (a_1 + 9d) - (a_1 + 10d) = -d$

$a_{10} - a_{11} = r(1 - \sqrt{r}) = \sqrt{r - r\sqrt{r}}$

$a_n = a^m, r \times a^m, \omega^y \rightarrow r \times r \times a^m = r \times a^m$

$b_n = x, r, y$

$b_r - b_1 = b_r - b_1$

$r - x = y - r \quad x + y = r$
 $r + r = x + y$

$a_r - a_1 = a_r - a_1$

$r \times a^m - a^m = a^m - r \times a^m$

$r \times a^m = a^m - r \times a^m$

$r \times a^m + r \times a^m = a^m$

$y = m + 1$

$\omega \times \omega^m = \omega^{m+1}$
 $\omega^{1+m} = \omega^y$

$\star \rightarrow y = m + 1 \rightarrow x + (m + 1) = r$
 $x + y = r \rightarrow x + (m + 1) = r$
 $m = r - 1 \rightarrow x = 1, y = r$

$a_n = r \times r - r, r \times r - 1, r \times r, \dots$
 $d = a_r - a_1 \rightarrow d = (r \times r - 1) - (r \times r - r)$

$a_r, a_r + d$

$a_r = r \times r + r \rightarrow a_r = (r \times \frac{1}{r}) + r = 9$

$d = r \times r - 1 - r \times r + r \rightarrow d = r$

$d = a_r - a_1$

$r = r \times r - (r \times r - 1)$
 $r = r \times r - r \times r + 1$
 $r = r \times r + 1$

$r = r \times r$
 $x = \frac{1}{r}$

$a_n = 2, 9, 16, \dots \rightarrow t_n = 2n + 1$

$b_n = 1, 2, 3, \dots \rightarrow t_n = 2n - 1$

$t_{10} = 2 \times 10 + 1 = 21$

$t_{10} = 2 \times 10 - 1 = 19$

$2, 9, 16, 25, \dots$
 $1, 2, 3, 4, 5, \dots$
 $d = 4 \rightarrow a_n = 4n - 1 \rightarrow n = 5$
 $a_5 = 4 \times 5 - 1 = 19$

$$a_1 + ar + ar^2 = 11$$

$$ar + ar^2 + ar^3 = 10 \rightarrow ar = 11 - 10 = 1 \rightarrow ar = 1$$

$$\frac{-11}{-11}, \frac{1}{-11}, \frac{10}{-11} \rightarrow ar - ar + a_1 = 10 - 1 - 11 = -2$$

$$a_1 + ar + ar^2 = 10$$

$$ar + ar^2 + ar^3 = 10 \rightarrow ar = 10 - 10 = 0$$

$$\frac{1}{-11} = \frac{1}{-11} = \frac{1}{-11}$$

$$a_1 + ar + ar^2 = 10$$

$$ar + ar^2 + ar^3 = 10 \rightarrow ar = 10 - 10 = 0$$

$$\frac{1}{-11}, \frac{10}{-11}, \frac{1}{-11}, \frac{11}{-11}$$

$$a_1 + ar + ar^2 = 10$$

$$ar + ar^2 + ar^3 = 10 \rightarrow 10 + 10 = 20$$

$$10d = 10 \rightarrow d = 1$$

$$a_n = a_1 + (n-1)d \rightarrow a_{10} = 1 + (10-1) \cdot 1 = 10$$

$$a_{10} = 1 + 10 = 11$$

$$a_n = a_1 + (n-1)d$$

$$S_n = \frac{n}{2} (2a_1 + (n-1)d) \rightarrow \frac{9}{2} (2a_1 + 10d) = 9 \times \frac{10}{2} (2a_1 + 10d)$$

$$11 \cdot 10 = 110$$

$$9(2a_1 + 10d) = 9 \cdot 10 (2a_1 + 10d)$$

$$18a_1 + 90d = 180a_1 + 900d$$

$$18d = 162a_1 \rightarrow a_1 = \frac{d}{9} \rightarrow d = 9a$$

$$a_{10} = \frac{d}{9} + 9d = \frac{80d}{9}$$

$$a_{10} = \frac{d}{9} + 9d = \frac{80d}{9}$$

$$\frac{a_{10}}{a_{10}} = \frac{\frac{80d}{9}}{\frac{80d}{9}} = 1$$

$$a_{10} = a + 9d \rightarrow 11 = a + 9d$$

$$a_{10} = a + 9d = 11$$

$$\frac{11}{11} = 1$$

$$a_1 = 11 \quad a_n = 11$$

$$n = k + 1$$

$$a_n = a_1 + (n-1)d \Rightarrow a_{k+1} = 11$$

$$11 = 11 + (k+1)d \rightarrow (k+1)d = 0$$

$$d = \frac{0}{k+1}$$

$$d = 11 + d$$

$$d = 11 + d \rightarrow 11 + d = 11 \rightarrow d = 0$$

$$d = \frac{0}{k+1} = 0 \rightarrow \frac{0}{k+1} = 0 \rightarrow k+1 = 0$$

$$k = -1$$

$$a_1 = 11 \quad a_n = 11$$

$$a_n = a_1 + (n-1)d$$

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

$$0d = 0 \rightarrow d = 0$$

$$d = 11 + d \rightarrow 11 + 11 = 22$$