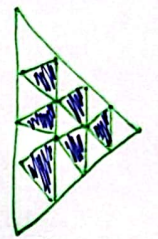


1	$(11) \quad (12) \quad (13) \quad (14)$ $\rightarrow 1, 4, 9, 16, 25, \dots$ n^2 سطرهای یابان تفاوت کدهای به ترتیب: 3, 5, 7, 9, 11, ... $\Rightarrow t_n = n^2 + \left(\frac{n(n-1)}{2}\right)$ $t_{10} = 100 + 45 = 145$ $\frac{n(n-1)}{2} = 145$
2	$(11) \quad (12) \quad (13) \quad (14)$ $0 \quad 1 \quad 3 \quad 6$  $a = \frac{1}{2}$ $\frac{a}{2} + b = 1 \Rightarrow b = \frac{1}{2}$ $c = 0$ $\Delta a = \frac{n^2 - n}{2} = \frac{n(n-1)}{2}$ $\Delta a = \frac{n(n-1)}{2} = \frac{n(n-1)}{2}$ $t_n = \frac{n^2}{2} - \frac{n}{2}$ $t_n = \frac{n(n-1)}{2}$ سطرهای سطرهای یابان تفاوت کدهای به ترتیب: 3, 5, 7, 9, 11, ...
3	$(11) \quad (12) \quad (13) \quad (14)$ $0 \quad 1 \quad 3 \quad 6$ $\Rightarrow t_n = \frac{n^2}{2} + 1$ $\Delta a = \frac{n^2 - n}{2} = \frac{n(n-1)}{2}$ $\Delta a = \frac{n(n-1)}{2} = \frac{n(n-1)}{2}$ $t_n = \frac{n^2}{2} + 1$ $\Delta a = \frac{n^2 - n}{2} = \frac{n(n-1)}{2}$ $\Delta a = \frac{n(n-1)}{2} = \frac{n(n-1)}{2}$ $t_n = \frac{n^2}{2} + 1$ $\Delta a = \frac{n^2 - n}{2} = \frac{n(n-1)}{2}$ $\Delta a = \frac{n(n-1)}{2} = \frac{n(n-1)}{2}$ $t_n = \frac{n^2}{2} + 1$
4	$(11) \quad (12) \quad (13) \quad (14)$ $0 \quad 1 \quad 3 \quad 6$ $\Rightarrow t_n = \frac{n^2}{2} + 1$ $\Delta a = \frac{n^2 - n}{2} = \frac{n(n-1)}{2}$ $\Delta a = \frac{n(n-1)}{2} = \frac{n(n-1)}{2}$ $t_n = \frac{n^2}{2} + 1$ $\Delta a = \frac{n^2 - n}{2} = \frac{n(n-1)}{2}$ $\Delta a = \frac{n(n-1)}{2} = \frac{n(n-1)}{2}$ $t_n = \frac{n^2}{2} + 1$
5	$(11) \quad (12) \quad (13) \quad (14)$ $0 \quad 1 \quad 3 \quad 6$ $\Rightarrow t_n = \frac{n^2}{2} + 1$ $\Delta a = \frac{n^2 - n}{2} = \frac{n(n-1)}{2}$ $\Delta a = \frac{n(n-1)}{2} = \frac{n(n-1)}{2}$ $t_n = \frac{n^2}{2} + 1$ $\Delta a = \frac{n^2 - n}{2} = \frac{n(n-1)}{2}$ $\Delta a = \frac{n(n-1)}{2} = \frac{n(n-1)}{2}$ $t_n = \frac{n^2}{2} + 1$

$$t_{10} - t_V = 12 \Rightarrow r_d = 12$$

$$d = f$$

$$t_4 - t_1 = \omega d \xrightarrow{d=f} f \omega = 12$$

$$a_r = V$$

$$a_f = 1\omega$$

$$\Rightarrow r_d = 1 \Rightarrow a_n = f_a - 1$$

$$d = f$$

$$b_1 = a_1 = f \times 1 - 1 = 0$$

$$b_r = a_r = f \times r - 1 = 11$$

$$d = 1$$

$$\Rightarrow b_n = 1a - a$$

$$t_n = \frac{r}{a}, \frac{4}{V}, \frac{1}{9}, \frac{1f}{11}, \dots \xrightarrow{\text{نصف}} \frac{f_{n-r}}{r_{n+r}} \Rightarrow \frac{f_{n-r}}{r_{n+r}} < \frac{r}{r}$$

$$1n - f < 4n + r$$

$$r_n < 12$$

$$n < 4, 5$$

$$n \rightarrow 4 \text{ و } 5 \text{ و } 6 \text{ و } 7 \text{ و } 8 \text{ و } 9 \text{ و } 10 \text{ و } 11$$

نصف

60

$$4, 9, 9, 4, 0, \dots$$

$$+12, 0, -12, -4$$

$$-12, -12, -12$$

$$rA + dB = \frac{19 + 12}{r} = 44$$

$$a = -\frac{r}{r}$$

$$t_n = -\frac{r}{r}n^2 + \frac{12}{r}n$$

$$r = -\frac{r}{r} + b \Rightarrow b = \frac{12}{r} \quad C = 0 \quad An^2 + Bn \rightarrow A = -\frac{r}{r}, B = \frac{12}{r}$$

$$t_n = -4, -f, 0, \dots$$

$$-4, +r, +f$$

$$+r$$

$$a_r = 11$$

$$a_f = 11 \Rightarrow r_d = 1$$

$$d = a \quad a_n = \Delta n + 11$$

$$a = 1$$

$$r = r + b \Rightarrow b = 4$$

$$C = -4$$

$$t_n = n^2 - n - 4$$

$$n^2 - n - 4 = \Delta n + 11$$

$$n^2 - 4n - rV = 0$$

$$n \rightarrow 4 \text{ و } 5 \text{ و } 6 \text{ و } 7 \text{ و } 8 \text{ و } 9 \text{ و } 10 \text{ و } 11$$