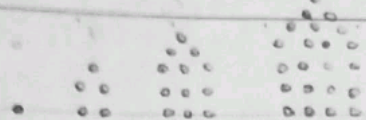


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اسم نوشته نشد



$$t_n = n^2 + \frac{n(n-1)}{2}$$

$$t_n = \frac{n^2 + n(n-1)}{2}$$

$$t_{10} = 100 + \frac{10 \times 9}{2} = 145$$

تعداد مربعها $\rightarrow 0, 1, 4, \dots$
 زنجیر مربعها

$$t_n = \frac{n(n-1)}{2} \Rightarrow n(n-1) = 11$$

$$n = 11$$

تعداد مربعها $\rightarrow 0, 1^2, 2^2, \dots$ $t_{n-1} = 1 \times 11 - 1 = 10$

تعداد مربعهای ششگونی

تعداد مربعهای $\rightarrow 0, 9, 1^2, \dots$ $f_{n+1} =$

$$f_{11+1} = f_{11}$$

مربعهای زنجیری ششگونی

$$a_n = \frac{(-1)^n}{n}$$

$n=1 \rightarrow -1$ (اولی)

$n=2 \rightarrow \frac{1}{2}$ (دوم)

$$b = \frac{1}{1} - (-1) = \frac{2}{1}$$

$$b_n = (-1)^n - v_n$$

$$b_k = -v_k - v_1 = -f_1$$

$$-a_k + v_2 = -f_1$$

$$a_k = -a_k + v_2$$

$$-a_k = -v_2$$

$$k = 14$$

$$t_1 = t_2 = 11 \quad 1, a, b = 1a, b, 11$$

9

$$t_{a, 11}$$

$$a = F$$

$$t_4 = t_1 = 4a + b = a + b = a + a = 2a = 20$$

$$t_5 = (2a + b = 11) \times 2 = 22 \quad -F, a - F, b = -11$$

11

$$t_6 = 2a + b = 1a \quad 2a + b = 1a$$

$$-b = 1$$

$$t_1 = F, n-1 = F$$

$$b = -1, a = F$$

$$t_2 = F, n-1 = 11$$

$$b_n \rightarrow F, 11, \dots \quad b_n = 11 - a$$

$$t_n = \frac{F}{a}, \frac{a}{1}, \frac{1}{F}, \frac{F}{11}, \dots$$

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11

$$t_n = \frac{F, n-1}{F, n+1}$$

$$\frac{F, n-1}{F, n+1} < \frac{F}{1}$$

$$11 - F < a, n+1$$

$$11 < 11$$

$$11 < \frac{11}{F} \rightarrow 11 < a, 11 \Rightarrow 1, F, F, F, a, a$$

$$t_n = a, a, a, a, \dots \quad t_n = A, n^2 + B, n$$

9

$$t_1 = A + B, a \times 1 = 1 \quad -F, A - F, B = -11$$

$$F, A + a, B = 1 \times (-\frac{F}{1}) + a(\frac{1}{F}) \quad t_2 = F, A + F, B = 9$$

$$F, A + F, B = 9$$

$$F, A = -F$$

$$A = -\frac{F}{1}, B = \frac{1a}{1}$$

$$-\frac{9}{F} + \frac{1a}{F} = \frac{9a}{F} = 11$$

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$$t_n = -q, -r, 0, \dots$$

$\begin{array}{c} +r \quad +r \\ +r \end{array}$

10

$$r_n = r$$

$$a = 1$$

$$t_n = an + b + c = 1 + b + c = -q \Rightarrow b + c = -1$$

$$r + b + c = -r \quad r + b + c = -1$$

$$t_r = ra + b = r + b = -1 \quad -ra - b = -r \quad b = -1$$

$$t_r = ra + b = r + b = -1 \quad ra + b = -r \quad c = -q$$

$$ra = 1$$

$$a = 1, b = -1$$

$$an + r1, n^r - n - q$$

$$n^r - qn - r1 = 0$$

$$\frac{(n-r)(n+r)}{q} = 0$$

$$n \neq -r$$

$$n = q$$

$$a_q = t_q = ra + r1 = qq$$

$$qq = \frac{q^2}{1}$$