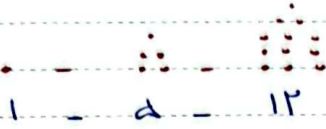


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(هم B)

(بنار خدا)

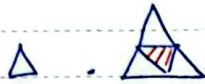
(طما بفری)



1 - 2 - 12 - 22 ...

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

$$t_{10} = 100 + \frac{(10)(11)}{2} - 10 = 145$$



0 - 1 - 3

$$t_n = \frac{n(n-1)}{2} = 110$$

$$n(n-1) = 110$$

$$n = 11$$

 $t_n = \varepsilon n + 1$ دایره‌های انگلی شده

$$t_n = \varepsilon n + 1 + (n-1)14$$

$$t_{11} \rightarrow \varepsilon \varepsilon + 1 = \varepsilon \varepsilon$$

$$t_{11} = \varepsilon \varepsilon + (10)14 = 145$$

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

$$n=1 \quad a_1 = -1$$

$$n=2 \quad a_2 = \frac{1}{2}$$

$$\frac{1}{2} - (-1) = 1 \quad d = \frac{3}{2}$$

$$b_n = (-3)^n - 21 = -27 - 21 = -48$$

$$a_n = -a_{n+22} \quad -a_{n+22} = -48$$

$$-a_n = -48$$

$$n = 14 = K$$

$$d = \frac{t_{10} - t_7}{10 - 7} = \frac{12}{3} = 4$$

$$\frac{t_4 - t_1}{4 - 1} = 4$$

$$(t_4 - t_1 = 12)$$

$$d = \frac{t_2 - t_1}{r} = \frac{11 - 3}{2} = 4$$

$$t_2 = a_1 + d = 3 + 4 = 7$$

$$t_1 = 3$$

$$t_2 = a_1 + r \cdot d = 11$$

الگوی خطی $\rightarrow 3 - 11 - 19 - 27 - \dots$ $a_1 = 3$

$$a_2 = a_1 + d = 3 + 4 = 7 \quad d = 4$$

$$b_n = 3 + (n-1)4$$

$$t_n = \frac{2}{a}, \frac{4}{b}, \frac{10}{9}, \frac{18}{11}, \frac{18}{13}, \frac{22}{15}, \frac{26}{17}$$

$$t_n = \frac{2 + (n-1)4}{2 + (n-1)2}$$

$$b_5$$

$$t_n = 7 - 9 - 9 - 7 - 5 - \dots$$

$$2a = -2$$

$$a = -1$$

$$t_n = -\frac{1}{2}n^2 + Bn \rightarrow \text{if } n=1 \rightarrow -\frac{1}{2} + B = 7 \quad B = 7.5$$

$$t_n = -\frac{1}{2}n^2 + 7.5n$$

$$2A + 2B \rightarrow (2 \times -\frac{1}{2}) + (2 \times 7.5) = 15$$

$$d = \frac{t_2 - t_1}{r} = a$$

$$t_2 = a_1 + d = 11$$

$$t_n = 11 + (n-1)a$$

$$t_n = -4, -8, -12, -16, -20, -24, -28, -32, -36, -40, -44, -48, -52, -56, -60, -64, -68, -72, -76, -80, -84, -88, -92, -96, -100, -104, -108, -112, -116, -120, -124, -128, -132, -136, -140, -144, -148, -152, -156, -160, -164, -168, -172, -176, -180, -184, -188, -192, -196, -200, -204, -208, -212, -216, -220, -224, -228, -232, -236, -240, -244, -248, -252, -256, -260, -264, -268, -272, -276, -280, -284, -288, -292, -296, -300, -304, -308, -312, -316, -320, -324, -328, -332, -336, -340, -344, -348, -352, -356, -360, -364, -368, -372, -376, -380, -384, -388, -392, -396, -400, -404, -408, -412, -416, -420, -424, -428, -432, -436, -440, -444, -448, -452, -456, -460, -464, -468, -472, -476, -480, -484, -488, -492, -496, -500, -504, -508, -512, -516, -520, -524, -528, -532, -536, -540, -544, -548, -552, -556, -560, -564, -568, -572, -576, -580, -584, -588, -592, -596, -600, -604, -608, -612, -616, -620, -624, -628, -632, -636, -640, -644, -648, -652, -656, -660, -664, -668, -672, -676, -680, -684, -688, -692, -696, -700, -704, -708, -712, -716, -720, -724, -728, -732, -736, -740, -744, -748, -752, -756, -760, -764, -768, -772, -776, -780, -784, -788, -792, -796, -800, -804, -808, -812, -816, -820, -824, -828, -832, -836, -840, -844, -848, -852, -856, -860, -864, -868, -872, -876, -880, -884, -888, -892, -896, -900, -904, -908, -912, -916, -920, -924, -928, -932, -936, -940, -944, -948, -952, -956, -960, -964, -968, -972, -976, -980, -984, -988, -992, -996, -1000$$

$$c = -4$$

$$a = +1$$

$$B = -1$$

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

روز بزرگداشت شیخ صفی الدین اردبیلی

1404/05 | 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

$$4 + a_n d = n^2 - n - 4 \rightarrow n = 9$$

$$(n^2 - n - 4) + n^2 + Bn - 4 \rightarrow \text{if } n=1 \rightarrow 2 - 1 - 4 + B - 4 = 0 \rightarrow B = 7$$

$$B - 2 = -7 \rightarrow B = -5$$