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$$t_n = 0, 1, 1, 1, \dots$$

$\xrightarrow{+1}$ $\xrightarrow{+1}$
 $+1$ $+1$

$$t_n = F_{n+1} \quad (الف) \quad 1$$

$$t_1 = F(1) + 1 = F_1 \quad (ب)$$

$$t_n = 0, 1, 1, 1, \dots$$

$$S_1 = \frac{1}{F} ((1 \times F) + (1 \times F)) = 2F \quad (الف) \quad 2$$

$$t_{19} + t_{18} + t_{17} + t_{16} =$$

$$S_F = \frac{F}{F} (F \cdot 1) = F \cdot 1 \quad (ب)$$

$$t_{19} = F \cdot 19 + 1 = 111$$

$$t_{18} = F \cdot 18 + 1 = 104$$

$$t_{19} - t_{18} =$$

$$d = 1 - \sqrt{F} = 1 - \sqrt{F}$$

$$t_{19} - t_{18} = F \cdot d - F \cdot d = F \cdot d = F \cdot (1 - \sqrt{F})$$

$$a_n = a^x, r \times a^x, a^y$$

$$a^x \times r^x - a^x = a^x (r^x - 1)$$

$$a^y - a^x \times r^x = a^x (r^x - 1)$$

$$a^y - r^x = a$$

$$xy = 1 \times r^x = r^x$$

$$b_n = x, r, y$$

$$r - x = y - 1$$

$$y - r = 1$$

$$r - y = x$$

$$y = r + 1 \Rightarrow y = 1 - r + 1$$

$$r = 1 \quad (y = r, x = 1)$$

$$rx + 1 = rx - 1$$

$$-r, 0, r, \dots$$

$$1x - rx = -1 + r$$

$$\xrightarrow{+r}$$

$$rx = r \quad x = \frac{1}{r}$$

$$t_n = r^n - 1$$

$$t_F = r(F) - 1 = 1$$

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کتاب و مشق

$$a_n = 5, 9, 13, 17, 21, 25, \dots \quad n=2, \quad r_{n+1} = 4$$

$$b_n = 2, 6, 10, 14, 18, 22, \dots \quad r_{n-1} = 4$$

$$c_{n-1} \leftarrow$$

$$c_{n-1} \neq 1$$

$$c_n \neq 2$$

$$n \leq 10, \quad \sum_{j=1}^n a_j \leq 10$$

$$a_1 + a_2 + a_3 = 11 \quad a_1 + a_2 = 5 \quad a_3 = 6 \quad a_2 = 4$$

$$a_1 + a_2 + a_3 = 11 \quad a_1 + a_2 = 5 \quad a_3 = 6 \quad a_2 = 4 \Rightarrow a_1 = -1$$

$$a_2 - a_1 + a_3 = 6 - 4 - 1 = 1$$

$$\frac{1}{a_1} = \frac{-1}{1} = -1$$

$$S_2 = \frac{1}{1} (a_1 + a_2) = 4 \quad S_3 = \frac{1}{1} (a_1 + a_2 + a_3) = 10$$

$$a_2 + a_3 = 5 + 6 = 11$$

$$a_1 = 5(1) - 1 = 4$$

$$a_1 + a_2 = -1 + 4 = 3$$

$$2, 6, 10, 14, \dots$$

$$d = 4, \quad a_1 = 2$$

$$a_n = 4n - 2$$

$$S_9 = 9S_2$$

$$\frac{9}{1} (4a_1 + 3d) = 9 \times \frac{1}{1} (2a_1 + d)$$

$$4a_1 + 3d = 2a_1 + d$$

$$2a_1 = -2d$$

$$d = -a_1$$

$$\frac{a_2}{a_1} = \frac{a_1 + d}{a_1} =$$

$$\frac{a_1 + d}{a_1} = \frac{2a_1}{2a_1} = 1$$

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کتابخانه

$$a_1 = 11$$

$$11, 12, 13, \dots$$

دنباله

10

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

$$a_n = 11 + (n-1) \cdot 1$$

$$a_n = 11 + (n-1) \cdot 1 = 11 + n - 1 = n + 10$$

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$$d = 1$$

$$a_1 = 11$$

$$a_n = n + 10$$

دنباله

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

$$11, 12, 13, 14, 15, \dots$$

$$15 = 11 + (n-1) \cdot 1$$

$$d = 1$$

کتابخانه