

1

$(11) \quad (12) \quad (13) \quad (14)$
 $\rightarrow 1, 4, 9, 16, 25, \dots$
 n^2
 سطرهای یابری
 تفاوت هر دو
 برابر است: $2n-1$

$$\frac{n(n-1)}{2} = 100 + 4a$$

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

$$t_{10} = 100 + 4a$$

$$100 = 4a \quad | :4$$

2

$(11) \quad (12) \quad (13) \quad (14)$
 $0 \quad 1 \quad 3 \quad 6$

 $a = \frac{1}{2}$
 $\frac{a}{2} + b = 1 \Rightarrow b = \frac{3}{2}$
 $c = 0$

$$t_n = \frac{n^2}{2} - \frac{n}{2}$$

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

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

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3

$(11) \quad (12) \quad (13) \quad (14)$
 $0, 1, 3, 6$
 $\Rightarrow t_n = \frac{n^2}{2} + 1$

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4

$(11) \quad (12) \quad (13) \quad (14)$
 $0, 1, 3, 6$
 $\Rightarrow t_n = \frac{n^2}{2} + 1$

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5

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 $0, 1, 3, 6$
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$$t_{10} - t_V = 12 \Rightarrow r_d = 12$$

$$d = f$$

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

(P)

$$a_r = V$$

$$a_f = 1\omega$$

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

$$d = f$$

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

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

$$d = 1$$

(P)

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

$$t_n = \frac{r}{a}, \frac{4}{V}, \frac{1}{9}, \frac{1f}{11}, \dots$$

$$\xrightarrow{\text{مقسوم}} \frac{f_{n-r}}{r_{n+r}} \Rightarrow \frac{f_{n-r}}{r_{n+r}} < \frac{r}{r}$$

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

$$r_n < 13$$

$$n < 4, 1, 0$$

$$n \rightarrow 4, 1, 0 \text{ مع } \frac{r}{r} = 1$$

(P)

(P)

(6)

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

$$+r, 0, -r, -4$$

$$-r, -r, -r$$

(1, 0)

$$rA + dB = \frac{49 + 1\omega}{r} = \frac{44}{r} = 11$$

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

$$t_n = -\frac{r}{r}n^r + \frac{1\omega}{r}n$$

$$r = -\frac{r}{r} + b \Rightarrow b = \frac{1\omega}{r} \quad C = 0 \quad An^r + Bn \rightarrow A = -\frac{r}{r}, B = \frac{1\omega}{r}$$

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

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

$$+r$$

$$a_r = 11$$

$$a_f = f1$$

$$\Rightarrow r_d = 1$$

$$d = a$$

$$a_n = \Delta n + 11$$

$$a = 1$$

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

$$C = -4$$

$$t_n = n^r - n - 4$$

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

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

$$n \rightarrow 4, 1, 0$$

(P)

1.