

$$a_n = \sum_{k=1}^n (a_k + 1) = a_1 + 1 + a_2 + 1 + \dots + a_n + 1$$

$$S_n = \frac{n}{2} (2a_1 + (n-1)d) = \frac{10}{2} (12 + 19 \times 4) = 240$$

$$n = 4 \times 15 = 60$$

$$S_n = \frac{n}{2} (2a_1 + (n-1)d) \Rightarrow (12 + 118) \times \frac{60}{2} = 3540$$

$$2a \rightarrow 125, 123 \text{ اقلیت}$$

$$2a \rightarrow 1 + \sqrt{2}, 2 - \sqrt{2} \text{ اقلیت}$$

$$2 - \sqrt{2}, 1 - \sqrt{2}, 1 + \sqrt{2}, 2 + \sqrt{2}$$

$$a_n, \delta^{rm}, 2 \times \delta^{rm}, \delta^y$$

$$\delta^{rm} + \delta^y, 2 \times \delta^{rm}, \delta^{rm}$$

$$\delta^y = 4 \times \delta^{rm} - \delta^{rm}$$

$$\delta^y = \delta^{rm+1}$$

$$2x+1=y$$

$$b_n \rightarrow u, r, y \quad x+y=2$$

$$x+y=2 \quad y=1$$

$$u, y, 2$$

$$2x-y=-1$$

$$x+y=2$$

$$\frac{2x}{x} = \frac{4}{x} \quad x=1$$

$$2x-2, 2x-1, 4x, 4x+2$$

$$-2, 0, 2, 4$$

$$(\Delta)$$

$$4x-2=2n-1$$

$$\frac{4x-2}{2} = \frac{2n-1}{2} \Rightarrow \frac{1}{2}$$

$$4 \times \frac{1}{2} + 2 = 3$$

$$17$$

$$a_1, 2, 2, 1, 1, 1, 1$$

$$2n+1$$

$$2n-1 \rightarrow 5, 11, 17, \dots$$

$$\delta!n = 2$$

$$a_1, \delta a_1, 2n-1$$

$$2n-1, 5, 11, 17, \dots$$

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$$2a_1 + 2a = 21$$

$$2a_1 + 4a = 10$$

$$a_1 + a = 11$$

$$11 - a_1 - a = 21 - 2a_1$$

$$X(a_1 + a) = \frac{21}{2}$$

$$2a = 12 \quad a = 6$$

$$\frac{11 - 2a}{2} = \frac{11 - 12}{2} = -\frac{1}{2}$$

$$a_1 + a = 11$$

$$a_1 + a = 11$$

$$a_1 + 6 = 11 \Rightarrow a_1 = 5$$

$$\frac{11v}{-11} = -\frac{1}{r}$$

$$S_r = \frac{r}{r} (ra + rd) = 10 \rightarrow a + d = 10 \quad S_0 = 10 + 10 = 20$$

$$S_0 = \frac{r}{r} (ra + rd) = 20 \quad a + rd = 1$$

$$a + rd = 1 \quad a = r \quad a_1 = r + (r)^r = r^2$$

$$a + d = 0$$

$$d = r$$

$$\frac{A}{r} (ra_1 + 1d) = 8 \times \frac{r}{r} (ra_1 + rd)$$

$$a_1 + rd = ra_1 + rd$$

$$d = ra_1$$

$$\frac{a_r}{a_r} = \frac{a_1 + 19d}{a_1 + 4d} = \frac{a_1 + 19 \times ra_1}{a_1 + 4 \times ra_1}$$

$$a_v = a_1 + 4d = 10 \quad 4d = 12 \quad d = 3 \quad a_1 = 11 + 12 = 23$$

$$d = \frac{a_m - a_n}{m - n} = \frac{23 - 11}{2 - 1} = 12 \quad d = \frac{b - a}{n + 1} = \frac{12 - 11}{n + 1}$$

$$n = 1$$