

المسألة : IV المسألة المسألة

$$\begin{matrix} [1] & [1, 4, 4] & [1, 4, 4, 1, 4] & \dots \\ \hline 1 & 1 & \delta & \dots \end{matrix}$$

$$\omega_{\text{شروط}} = q^2 \cdot 11$$

$$\omega = \frac{11 - n}{1} + 1 \cdot 11$$

$$\omega_{\text{شروط}} = (1 \times 4) - 1 \cdot 11 \rightarrow m = 40$$

$$\rho_{\text{شروط}} = \frac{11 + 40}{1} = 51$$

$$[1, \dots, 1], [1, \dots, 1], [1, \dots, 1], [1, \dots, 1], [1, \dots, 1]$$

$$\frac{11 + 40}{1} = 51$$

$$a_0 + a_1 + a_2 + a_3 + a_4 + a_5 + a_6 + a_7 + a_8 + a_9$$

$$r^k, n = ck \Rightarrow n = 0, 1, 2, 3, 4 \rightarrow r^0(1), r^1(2), r^2(3), r^3(4)$$

$$\left[\frac{n}{k+r} \right] M \rightarrow \left[\frac{r}{0+r} \right] + a, \left[\frac{\delta}{1+r} \right] + a, \left[\frac{1}{r+r} \right] + a \Rightarrow 1+a + 1+a + 1+a$$

$$S_0 = 1 + r + r^2 + r^3 + r^4 + r^5 + r^6 + r^7 + r^8 + r^9 \rightarrow r^0 + r^1 + r^2 + r^3 + r^4 + r^5 + r^6 + r^7 + r^8 + r^9$$

$$ax + a_0x \rightarrow r + a_0 \Rightarrow n = ck + r \Rightarrow \left[\frac{r}{0+r} \right] - r, \left[\frac{\delta}{1+r} \right] - r, \dots + \left[\frac{r}{r+r} \right] - r$$

$$1 - r + 1 - r + 1 - r + \dots = (-1)$$

$$eqa + vb + c = 11, r$$

$$-ra + db + c = 1E$$

$$ra + vb = 11r \rightarrow -\frac{r}{\delta} + vb = \frac{r}{1}$$

$$vb = 1 \quad (b = 1)$$

$$-ra + \frac{r}{\delta} + c = 1E \quad (c = -1)$$

$$a_{10} = \frac{(11 - \frac{1}{\delta})(10 \times E) - 1}{-E \delta} = 11$$

$$\frac{a_{10}}{a_1} = \frac{11}{\frac{1}{\delta}} = 11\delta$$

$$a_1 = \frac{(11 - \frac{1}{\delta})(10 \times E) - 1}{-\frac{1}{\delta} + \frac{10}{\delta} - \frac{\delta}{\delta}} = 11$$

$$ae = ed + a \Rightarrow a' = ea' + b$$

$$an = vd + a \Rightarrow a' = va' + b$$

$$a' = ea' - ba' = -ca'$$

$$a' = va' - ba' = -ca'$$

$$ed + a = -ca'$$

$$vd + a = -ca'$$

$$\frac{ed + a}{vd + a} = \frac{\delta a'}{\delta a'}$$

$$\frac{\delta a'}{\delta a'} = 1$$

$$q(a^r + d^r + \epsilon da) = \delta(a^r + \epsilon da) + \epsilon(a^r + da) \Rightarrow qa^r + qd^r + \epsilon qda = \delta a^r + \delta \epsilon da + \epsilon a^r + \epsilon da$$

$$\epsilon a^r = \delta a^r - qd^r \Rightarrow a^r + \frac{1}{\epsilon} da - \epsilon d^r = 0$$

$$a = \begin{bmatrix} -\epsilon d \\ +\frac{1}{\epsilon} d \end{bmatrix} \quad a\epsilon = a\sqrt{d} \begin{bmatrix} -\epsilon d + \epsilon d = 0 \\ +\frac{1}{\epsilon} d + \frac{q}{\epsilon} d - \frac{q}{\epsilon} d = 0 \end{bmatrix}$$

$$\frac{a\epsilon}{d} \begin{bmatrix} \frac{d}{d} \\ \frac{\epsilon q}{d} \end{bmatrix} \quad \textcircled{1} \quad \textcircled{2}$$

$$\frac{a}{a+d} \frac{b}{b+d} \frac{c}{c+d} = \frac{a}{a+d} \frac{b}{b+d} \frac{c}{c+d} \Rightarrow \frac{a}{a+d} \frac{b}{b+d} \frac{c}{c+d} = \frac{a}{a+d} \frac{b}{b+d} \frac{c}{c+d}$$

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$$a, b, c \quad b, \frac{a}{\epsilon}, \frac{c}{\epsilon} \quad \Rightarrow \quad \frac{a}{a+d} \frac{b}{b+d} \frac{c}{c+d} = \frac{a}{a+d} \frac{b}{b+d} \frac{c}{c+d}$$

$$\frac{a^r}{\epsilon} = \frac{a\epsilon d}{\epsilon} + \frac{\epsilon d^r}{\epsilon} \Rightarrow \frac{a^r}{\epsilon} = \frac{a\epsilon d}{\epsilon} + \frac{\epsilon d^r}{\epsilon}$$

$$\frac{\epsilon d^r}{\epsilon} + \frac{\epsilon d^r}{\epsilon} = 0 \quad \frac{1}{\epsilon} d^r (a + \epsilon d) \Rightarrow d \neq 0 \Rightarrow \frac{a + \epsilon d}{a - \frac{1}{\epsilon} d}$$

$$q = \frac{-\frac{d}{\epsilon}}{\frac{d}{\epsilon}} = -1 \quad \epsilon a - 1 = \frac{-1}{\epsilon}$$

$$a, b, c \quad \frac{a}{a}, \frac{b}{b}, \frac{c}{c} \quad \Rightarrow \quad a = \frac{a}{a} + \frac{b}{b} + \frac{c}{c} \Rightarrow a = \frac{a}{a} + \frac{b}{b} + \frac{c}{c}$$

$$a(q^r + \epsilon q - \epsilon) \Rightarrow a \neq 0 \Rightarrow (q + \epsilon)(q - 1) \quad q = \frac{-\epsilon}{1 + \epsilon}$$

$$q^r = (-\epsilon)^r = \frac{-1}{\epsilon}$$

$$\frac{a q^r}{a^r q^r} + \frac{a q}{a^r} = r \Rightarrow \frac{q^r}{a^r} + \frac{q}{a} = r \Rightarrow \frac{q^r + a q}{a^r} = r$$

$$\epsilon a^r = q^r + a q \quad q^r + a q - \epsilon a^r = 0 \quad (q + \epsilon)(q - a) \quad q = \frac{-\epsilon}{1 + \epsilon}$$

$$\frac{a^r}{a q} \begin{bmatrix} 1 \\ -1 \end{bmatrix}$$

$$a_c = a q^r \quad a_c = a^r q^r = a q^r \Rightarrow a q = 1$$

$$a q^r = UV \Rightarrow \underbrace{a q}_1 \times q^r = UV \Rightarrow q = r$$

$$a \times M = UV$$

$$\left(a = \frac{1}{r} \right)$$

$$\frac{1}{r} - \frac{1}{c} = \left(\frac{1}{q} \right) \cdot \frac{1}{p}$$

(1.)