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$$f(n) = \frac{n^2 + an + b}{n-1} \xrightarrow{\text{مقسوم علیه}} n+1 \quad | : a, b = 0 \rightarrow a+b = 1$$

$$\left[\frac{b-1a}{r} \right] = \left[\frac{-1}{r} \right] = -\frac{1}{r}$$

$$\Delta n^2 - an + b = 0 \rightarrow \Delta a + b = 0 \rightarrow a - b = \Delta$$

$$a \in \mathbb{Z}, b \in \mathbb{Z}$$

$$\frac{(n+r)(n-1)}{a(1-n)} \xrightarrow{\frac{-r-1}{r-1-1+}} \frac{(n+r)(n-1)}{a(n-1)} = \frac{-n, r}{a} \Rightarrow \frac{r}{a} = \frac{-r}{a} \Rightarrow a = r$$

$$n \leq \Delta \rightarrow [n] = \Delta, \quad n \leq \Delta \rightarrow \frac{-V}{a} = b(\Delta - (-\Delta))$$

$$-\frac{V}{r} = b \cdot 2\Delta \rightarrow b = -\frac{V}{2r\Delta}$$

$$ab = r \left(-\frac{V}{2r\Delta} \right) = \boxed{-\frac{V}{2\Delta}}$$

$$f(n) = b[n^2 - an] - ra \xrightarrow{\text{مقسوم علیه}} b = 0 \rightarrow f(n) = -ra$$

$$\frac{a}{f(n)} = \frac{a}{-ra} = \boxed{-\frac{1}{r}}$$

$$f(u) = \begin{cases} \frac{n+mn}{a-u} & n \neq a \\ r & n = a \end{cases} \quad \text{ملاحظة} \rightarrow \begin{matrix} \text{مخرج} \\ n-a \\ \text{مخرج} \end{matrix}$$

$$\frac{(n-a)(u-a)}{-(u-a)} = -n+a \xrightarrow{f(u) \cdot r} -(a-a) \cdot r \rightarrow ar$$

$$(n-a)(u-a) \cdot n \cdot r + r \cdot a^r = n^r + mn + n \rightarrow \begin{matrix} m \neq r \rightarrow m+4 \\ n \neq r \rightarrow n \neq 1 \end{matrix} \quad \left. \begin{matrix} \\ \end{matrix} \right\} n \cdot m \neq 1$$

$$n_{s0} \rightarrow (1-a)(0) + (r \cdot a^r)(-1) \leq 1 - r \cdot a^r$$

$$n_{s0} \rightarrow b \sin\left(\frac{\pi}{a}\right)$$

$$n_{s0} \rightarrow (1-a)(-1) + (r \cdot a^r)(0) \leq a-1$$

$$\frac{a}{b} \approx \sqrt{r}$$

$$\Rightarrow 1 - r \cdot a^r = a-1 \rightarrow r \cdot a^r + a - r_{s0} \rightarrow a-1 \rightarrow \begin{matrix} 1 - r \cdot a^r = r \\ a-1 = -r \end{matrix} \quad b \sin\left(\frac{\pi}{a}\right) \approx 0 \quad \text{جواب}$$

$$\left[a = \frac{r}{r} \right] \rightarrow \begin{matrix} 1 - r \cdot a^r = -\frac{1}{r} \\ a-1 = -\frac{1}{r} \end{matrix} \quad b \sin\left(\frac{\pi}{a}\right) \approx b \rightarrow \boxed{0 = \frac{1}{r}}$$

$$as \rightarrow \begin{matrix} \text{مخرج} \\ \text{مخرج} \end{matrix} \rightarrow \sqrt{r} |a^r + a| \approx 0$$

$$a(a+1) \approx 0 \rightarrow a \approx 0 \rightarrow C_{n0} \approx 0 \rightarrow \text{جواب}$$

$$f(u) = \frac{\sqrt{r} |1-u-1|}{|u^r + (r-r) \cdot u^r|} \approx \frac{\sqrt{r} |u+1|}{|u^r + 1|}$$

$$\rightarrow a \approx 1 \checkmark \rightarrow \text{جواب} \rightarrow n \approx 1 \rightarrow$$

$$|-1 + (n-r)(1)+1| \approx 0$$

$$\lim_{n \rightarrow \infty} f(u) \rightarrow \frac{\sqrt{r} |1|}{|1+1|} \approx \frac{|u+1|}{|u^r + 1|} \approx \frac{1}{\left(\frac{1+r}{r}\right)} \approx \left(\frac{1}{r}\right)$$

$$m \approx r \leftarrow$$