

1- نتیجه

داده‌های پس‌زمینه

برای مقایسه
مقادیر نزدیک

$$D_{g,f} = \{n \mid a \in D_f, f(n) \in D_g\}$$

-1

$$f(n) = \sqrt{\log_r^{n-1}} \rightarrow \begin{cases} n-1 > 0 \rightarrow n > 1 \quad \text{I} \\ \log_r^{n-1} \geq 0 \rightarrow n-1 \geq 1 \rightarrow n \geq 2 \quad \text{II} \end{cases} \quad \left\{ \begin{array}{l} \text{I, II} \\ n \geq 2 \end{array} \right.$$

$$g(n) = \sqrt{-n^c + \varepsilon n - \varepsilon}, \quad \sqrt{-(n-2)^c} \Rightarrow n-2 \Rightarrow \sqrt{\log_r^{n-1}} = 2$$

$$\Rightarrow \log_r^{n-1}, \varepsilon \rightarrow n-1, 1 \rightarrow \boxed{n, 1V}$$

$$D_{g,f} = \{1V\}$$

$$\begin{aligned} f \circ g(n) &= \tau g - \delta & \left\{ \begin{array}{l} f \circ g(n), g(n) \\ \xrightarrow{\quad} \tau g - \delta, f(\tau f + 1) \end{array} \right. \\ g \circ f(n) &= f(\tau f + 1) \end{aligned}$$

-C

$$\Rightarrow \tau n^c - \varepsilon_{n+1} = \varepsilon_{n+1}^c - \varepsilon_{n+1} - \varepsilon_{n+1} \cdot \varepsilon_{n+1} = \varepsilon_{n+1}^c - \varepsilon_{n+1} + \varepsilon_{n+1}$$

$$\Rightarrow \varepsilon_{n+1}^c - \varepsilon_{n+1} + \varepsilon_{n+1} \rightarrow \varepsilon_{n+1}^c - \varepsilon_{n+1} + \varepsilon_{n+1} = \varepsilon_{n+1}^c - \varepsilon_{n+1} + \varepsilon_{n+1}$$

$$S = \frac{b}{a}, \frac{c}{\varepsilon}, 1.$$

$$P = \frac{c}{a}, \frac{\varepsilon}{\varepsilon}$$

$$g \circ f(n), g(f(n)), g(n), \delta n^c + 11$$

-C

$$g(b), \frac{\delta}{\varepsilon} b^c + 11 \rightarrow g(n), \frac{\delta}{\varepsilon} n^c + 11$$

$$\Rightarrow g(n-v), \frac{\delta}{\varepsilon} (n-v)^c + 11 \xrightarrow{n-v} g_{min} = 11$$

$$f \circ g(n), f(g(n)), \tau g - \varepsilon = \varepsilon_{n+1}^c - \varepsilon_{n+1} - 1 \rightarrow g(n), \varepsilon_{n+1}^c - \varepsilon_{n+1} - 1$$

$$g \circ f(n), g(f(n)), (\tau n - \delta)^c, \varepsilon n^c, \varepsilon - \varepsilon \cdot n$$

$$f-g = -x + \delta \quad \left. \begin{array}{l} f \text{ on } [m, \varepsilon] \\ f-g \text{ on } [1, \varepsilon] \end{array} \right\} \quad \left. \begin{array}{l} f \text{ on } [m, \varepsilon] \\ g \text{ on } [m, 1] \end{array} \right\}$$

$$f \text{ on } [m, (m-1) + \varepsilon, m + \varepsilon] \Rightarrow f \text{ on } [a], \varepsilon + 1, 0 \Rightarrow a = -\frac{1}{\varepsilon}$$

$$f \text{ on } [m, 1] \quad y_c^m = m \quad y_c^1 = 1$$

$$g \cdot f \text{ on } [m, 1] = y_c^m, (m y_c^1, m) \quad \left. \begin{array}{l} f \text{ on } [m, 1] \cdot g \cdot f \\ \Rightarrow m^1, m \Rightarrow m - m \cdot 1 \end{array} \right\}$$

$$g \text{ on } [m, 1] \rightarrow x > 0 \quad I$$

$$I, I^c \quad \text{جواب: } (0, 1] \rightarrow \text{داده: } 1, 1 \quad \text{و } x > 0$$

$$+ \frac{1}{1} + \frac{1}{1} \Rightarrow 0, 1, 1, 1$$

$$f\left(\frac{1}{2}\right) = f\left(\frac{1}{2}\right) = \left(\frac{1}{2} - \varepsilon + \frac{\varepsilon}{2}\right) + \frac{1}{2} = \left(\frac{1}{2} - \frac{\varepsilon}{2}\right) + \frac{1}{2}$$

$$\left(\frac{1}{2} - \frac{\varepsilon}{2}\right) + \frac{1}{2} = \frac{\varepsilon}{2} - \varepsilon$$

$$\Rightarrow f(1), \frac{1}{2} + \frac{1}{2} \Rightarrow f \text{ on } [m, 1] + 2$$

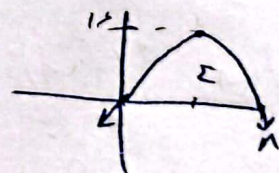
$$D_{f \circ g} = \{x \mid x \in D_g, g(x) \in D_f\}$$

- 1

$$\Rightarrow g \text{ on } [1, 2] \Rightarrow D_g = \mathbb{R}$$

$$f \text{ on } [m, 1] \rightarrow m > 0 \Rightarrow 1 - m^1 > 0 \quad \frac{1}{1} + \frac{1}{1} \Rightarrow 0 < m < 1$$

$$\Rightarrow D_{f \circ g} = (0, 1) = A$$



$$f \text{ on } [m, 1] \rightarrow m > 0 \Rightarrow 1 - m^1 > 0$$

$$\Rightarrow 0 < g < 1 \Rightarrow y_c^1 < y_c^1 \leq y_c^1 \Rightarrow 0 < y_c^1 \leq 1$$

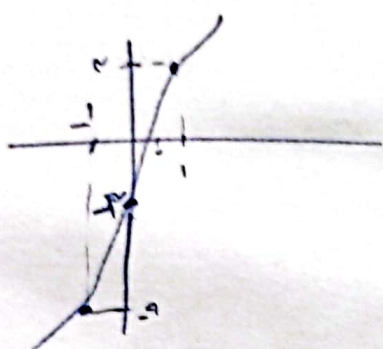
$$\Rightarrow R_{f \circ g} = (-\infty, \varepsilon], \mathbb{R}$$

$$\Rightarrow A \cap B = (0, \varepsilon] \Rightarrow \text{داده: } \{1, 1, 1, \varepsilon\}$$

$$f(f(x), 1 - x f'(x)) \xrightarrow{f(x)=t} f(t), 1 - x t^c \rightarrow f(x), 1 - x t^c \quad -9$$

$$h(y(x)) = (n-1)^c + x(n-1) + 1 = n^c - x n^c + x n - 1 + x n - x, 1 \\ = n^c - x n^c + 2x n - 2$$

$$\rightarrow h(y(x)) = f(x) \rightarrow n^c - x n^c + 2x n - 2, 1 - x n^c \rightarrow n^c + 2x n - 2 = 0$$



مع سائیر نمودار را با نقشه دسی رسم کنید:

با توجه به روند نمودار اطلاعات که می‌آید را بنویسید (معمولاً)

$$g(f(x)) = a n^c + n \quad \rightarrow \quad f(x) = x^c \rightarrow a \cdot \frac{x}{c}, n \quad -1. \\ g(x) = n \quad \rightarrow \quad \frac{x^c - x}{c}, n \rightarrow x^c - x \cdot \frac{x}{c} \rightarrow \left\{ \begin{array}{l} a = 1 \\ a, x \end{array} \right.$$

$$\rightarrow g \circ f(x) = g(n) = a x + n = 1 \Rightarrow \boxed{a = 0}$$

$$g \circ f(-1) = g(n) = -a - 2 = 1 \Rightarrow \boxed{a = -1}$$