

$$\begin{aligned} \epsilon_1 &= 20 \\ \epsilon_2 &= 41 \\ d &= \frac{41 - 20}{3} = 7 \\ \epsilon_n &= 7n + 20 \\ 20n &= 7n + 20 \Rightarrow n = 20 \end{aligned}$$

$$\begin{aligned} 101, 108, \dots, 999 &\Rightarrow \epsilon_n = 7n + 92 \\ \Rightarrow 7n + 92 &= 999 \Rightarrow n = 129 \end{aligned}$$

$$\begin{aligned} n=1 &\Rightarrow a_1 + a_2 + a_3 = 4 \\ a_1 + d & a_1 + 2d & a_1 + 3d \\ \Rightarrow 3a_1 + 6d &= 4 \Rightarrow a_1 = 4 \\ \Rightarrow \epsilon_n &= -2n + 1 \\ \epsilon_1 &= -1 \quad \epsilon_{14} = 24 \\ \epsilon_1 + \epsilon_{14} &= 23 \end{aligned}$$

$$\begin{aligned} \frac{1x + y}{2} &= 1 \Rightarrow x \times y^{n+1} = x^n + y^n - x^y \Rightarrow y^{n+2} + x^y = x^n + y^n \\ \Rightarrow x^y (y^n + 1) &= y^n (x^n + 1) \Rightarrow x^y = y^n \Rightarrow n = 2 \\ 1x, 1, y &\Rightarrow x + 1 + y = 2x \end{aligned}$$

$$\begin{aligned} a_{10} - a_{14} &= 20 \\ + a_{10} + a_{14} &= 20 \\ \hline a_{10} &= 10 \\ a_{14} &= 10 \\ d &= \frac{10 - 10}{4} = -2.5 \\ \epsilon_n &= -2.5n + 20 \\ \epsilon_{41} &= -2.5 \times 41 + 20 = -12.5 \end{aligned}$$

$$v \times v/a (va_1 + \epsilon d) = a (va_1 + qd) - v/a (va_1 + \epsilon d)$$

$$\Rightarrow 10a_1 + v_0 d = 10a_1 + \epsilon a d - a a_1 - 10d \Rightarrow 10a - a d = 0 \Rightarrow a = \frac{d}{v}$$

$$\Rightarrow \frac{a_1}{a_1 + d} = \frac{\frac{1}{v} d}{\frac{1}{v} d + d} = \frac{\frac{1}{v} d}{\frac{v+1}{v} d} = \frac{1}{v+1}$$

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$$\epsilon_2 = \epsilon_1 + 10 = \epsilon_1 + v d \Rightarrow d = 10$$

$$\epsilon_q = (a_1 + 10a)^v = a_1^v + 10v a_1^{v-1} + 10a a_1^{v-1}$$

$$\epsilon_a = (a_1 + \epsilon a)^v = a_1^v + \epsilon v a_1^{v-1} + \epsilon a a_1^{v-1}$$

$$\Rightarrow \epsilon_q - \epsilon_a = 10v a_1^{v-1} - \epsilon v a_1^{v-1}, \quad \epsilon_v = a_1 + v_0$$

$$\frac{\epsilon_q - \epsilon_a}{\epsilon_v} = \frac{10v a_1^{v-1} - \epsilon v a_1^{v-1}}{a_1 + v_0} = \frac{\epsilon v (a_1 + v_0)}{a_1 + v_0} = \epsilon v$$

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$$d = \frac{v + \sqrt{v} - v(1 - \sqrt{v})}{1v} = \frac{v + \sqrt{v} - v + v\sqrt{v}}{1v} = \frac{1v\sqrt{v}}{1v} = \sqrt{v}$$

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$$d = \frac{v - v}{\epsilon n - v} = \frac{1v - 1}{vn - 1} = \frac{1a}{vn - 1} \Rightarrow a_n = v + n \left(\frac{1a}{vn - 1} \right)$$

$$= v + \frac{1an}{vn - 1} = \frac{11}{1} \Rightarrow \frac{1an}{vn - 1} = 9 \Rightarrow 1an - 9 = 1an \Rightarrow n = v$$

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$$\epsilon_m + \epsilon_n = \epsilon_z + \epsilon_a \Rightarrow m + n = z + a$$

$$\epsilon_{1v} + \epsilon_e = \epsilon_n + \epsilon_{(m+v)} \Rightarrow v_0 = vn + \epsilon \Rightarrow n = 1$$

$$\Rightarrow \epsilon_n + \epsilon_{1v} = \epsilon_e + \epsilon_{1v}$$

$$\epsilon_1 = v \epsilon_2 \Rightarrow a_1 + v d = v a_1 + q d$$

$$\Rightarrow va_1 + v d = 0 \Rightarrow a_1 + d = 0 = \int_0^1 v_0 =$$

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