$$\frac{f_{art}2}{(n)} = \frac{1}{(n)} = \frac{1}{(n)} = \frac{1}{(n)}$$

$$\frac{ex^{2}}{(n)} = \frac{1}{(n-1)} = \frac{1}{(n)}$$

$$\frac{ex^{3}}{(n)} = \frac{1}{(n)} + \frac{1}{(n-1)} = \frac{1}{(n)}$$

$$\frac{ex^{4}}{(n)} = \frac{1}{(n)} + \frac{1}{(n-1)} = \frac{1}{(n)}$$

$$\frac{ex^{5}}{(n)} = \frac{1}{(n)} + \frac{1}{(n-1)} = \frac{1}{(n)}$$

$$\frac{ex^{5}}{(n)} = \frac{1}{(n-1)} = \frac{1}{(n-1)} = \frac{1}{(n-1)}$$

$$\frac{ex^{5}}{(n)} = \frac{1}{(n-1)} = \frac{1}{(n-1)} = \frac{1}{(n-1)}$$

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Part 1 d)
$$10^{5} = 10g_{2} n \Rightarrow n = (10^{5})^{2} = 10^{16}$$
 $10^{5} = n \Rightarrow n = 10^{5}$
 $10^{5} = n \log n \Rightarrow n = 7710$
 $10^{5} = n^{2} \Rightarrow n = 710^{5} \Rightarrow 316$
 $10^{5} = n^{3} \Rightarrow n = 310^{5} \Rightarrow 46$
 $10^{5} = n^{3} \Rightarrow n = \log_{2}(10^{5}) \approx 17$