$$\Rightarrow \exists n_0, n_1, n_2, \dots + q$$

$$|\lim_{i \to \infty} \{bn_i\} = 1$$

$$\Rightarrow \underline{\alpha} = \frac{\{an_i\}}{\{bn_i\}}$$

$$\Rightarrow \underline{\alpha} = \frac{\lim_{i \to \infty} \{an_i\}}{\lim_{i \to \infty} \{bn_i\}} = 1$$

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