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$$\begin{aligned}
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 & \frac{1}{n} \cdot \frac{1}{2} \cdot \frac{1}{3} \cdot \dots \cdot \frac{1}{n} = \frac{1}{n!} \\
 & \frac{1}{n} \cdot \frac{1}{2} \cdot \frac{1}{3} \cdot \dots \cdot \frac{1}{n} = \frac{1}{n!}
 \end{aligned}$$

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