

$$\begin{aligned}
\ln 2 &= \frac{1}{1} - \frac{1}{2} + \frac{1}{3} - \\
&\frac{1}{4} + \frac{1}{5} - \frac{1}{6} + \frac{1}{7} - \frac{1}{8} + \frac{1}{9} - \\
&\frac{1}{10} + \frac{1}{11} - \frac{1}{12} + \frac{1}{13} - \frac{1}{14} + \frac{1}{15} - \frac{1}{16} + \frac{1}{17} - \\
&\frac{1}{18} + \frac{1}{19} - \frac{1}{20} + \frac{1}{21} - \frac{1}{22} + \frac{1}{23} - \frac{1}{24} + \frac{1}{25} - \frac{1}{26} + \frac{1}{27} - \frac{1}{28} + \frac{1}{29} - \frac{1}{30} + \frac{1}{31} - \frac{1}{32} + \frac{1}{33} - \\
&\frac{1}{34} + \frac{1}{35} - \frac{1}{36} + \frac{1}{37} - \frac{1}{38} + \frac{1}{39} - \frac{1}{40} + \frac{1}{41} - \frac{1}{42} + \frac{1}{43} - \frac{1}{44} + \frac{1}{45} - \frac{1}{46} + \frac{1}{47} - \frac{1}{48} + \frac{1}{49} - \frac{1}{50} + \frac{1}{51} - \frac{1}{52} + \frac{1}{53} - \frac{1}{54} + \frac{1}{55} - \frac{1}{56} + \frac{1}{57} - \frac{1}{58} + \frac{1}{59} - \frac{1}{60} + \frac{1}{61} - \frac{1}{62} + \frac{1}{63} - \frac{1}{64} + \frac{1}{65} - \frac{1}{66} + \frac{1}{67} - \frac{1}{68} + \frac{1}{69} - \frac{1}{70} + \frac{1}{71} - \frac{1}{72} + \frac{1}{73} - \frac{1}{74} + \frac{1}{75} - \frac{1}{76} + \frac{1}{77} - \frac{1}{78} + \frac{1}{79} - \frac{1}{80} + \frac{1}{81} - \frac{1}{82} + \frac{1}{83} - \frac{1}{84} + \frac{1}{85} - \frac{1}{86} + \frac{1}{87} - \frac{1}{88} + \frac{1}{89} - \frac{1}{90} + \frac{1}{91} - \frac{1}{92} + \frac{1}{93} - \frac{1}{94} + \frac{1}{95} - \frac{1}{96} + \frac{1}{97} - \frac{1}{98} + \frac{1}{99} - \frac{1}{100} + \dots
\end{aligned}$$