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$$1+\frac{2}{3}+\frac{3}{5}+\dots+\frac{1}{2^{n-1}}+\dots=q_1+q_2+q_3+\dots+q_N+\dots \iff \sum_{N=1}^{n}q_N=\sum_{n=1}^{n}\frac{1}{2^{n-1}}$$

Pemerure:

 $1+\frac{2}{3}+\frac{3}{5}+\dots+\frac{1}{2^{n-1}}+\dots=q_1+q_2+q_3+\dots+q_N+\dots \iff \sum_{N=1}^{n}q_N=\sum_{N=1}^{n}\frac{1}{2^{n-1}}$

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When $q_{11}=\lim_{N\to\infty}\frac{1}{N^2}=\lim_{N\to\infty}\frac{1}{N^2}=\lim_{N\to\infty}\frac{1}{N^2}=\lim_{N\to\infty}\frac{1}{2^n-1}=\lim_{N\to\infty}\frac{1}{N^2}=\lim_{N\to\infty}\frac{1}{2^n-1}=\lim_{N\to\infty}$

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