

$$\sum_{n=1}^{\infty} \left[ \frac{1}{\log(\log n)} \right]^{\log(\log n)} = +\infty$$

PER CONFRONTO ASINTOTICO FMA:

$$a_n = \left( \frac{1}{\log(\log n)} \right)^{\log(\log n)} \quad b_n = \frac{1}{n}$$

$$\frac{a_n}{b_n} = n \left( \frac{1}{\log(\log n)} \right)^{\log(\log n)} \rightarrow +\infty$$

PER CRITERIO FUNZIONE-SUCCESSIONE:

$$x \left( \frac{1}{\log(\log x)} \right)^{\log(\log x)} \quad x = e^{e^y} \quad y \rightarrow +\infty$$

$$\frac{e^{e^y}}{y^y} = e^{e^y - y \log y} \rightarrow +\infty$$

$$e^y - y \log y = e^{\overset{\rightarrow +\infty}{y}} \left( 1 - \frac{y \log y}{e^{\overset{\rightarrow 0}{y}}} \right) \rightarrow +\infty$$