$$= \log_{10}(1) + \log_{10}(2) + \log_{10}(3) + \cdots + \log_{10}(N) + 1$$

$$= \sum_{i=1}^{N} \log_{10}(i) + 1$$

$$\log_{i}(N) = \log_{i}(N)$$

$$\log_{i}(N) = \log_{i}(N) + 1$$

$$= (\log_{i}(N)) + 1$$

$$= (\log_{i}(N)) + 1$$

$$\log_{i}(N) = \log_{i}(N) + 1$$