$$\sum_{k=1}^{n} k = \frac{n(n+1)}{2} \sum_{k=1}^{n} k^{2} = \frac{n(n+1)(2n+1)}{6} \sum_{k=1}^{n} k^{3} = \left(\frac{n(n+1)}{2}\right)^{2}$$

Taproot · 2020-2021 Page 1 of 1