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Are $\sum_{j=1}^{\infty} a_j$ and

$\sum_{k=1}^{\infty} b_k$ equal,

where $b_k = \sum_{n_k \le j < n_{k+1}} a_j$

and $n_0 = 0 < 1 = n_1 < n_2 < \cdots$?

More generally
when do all re-orderings
of the terms of a series
produce the same sum?