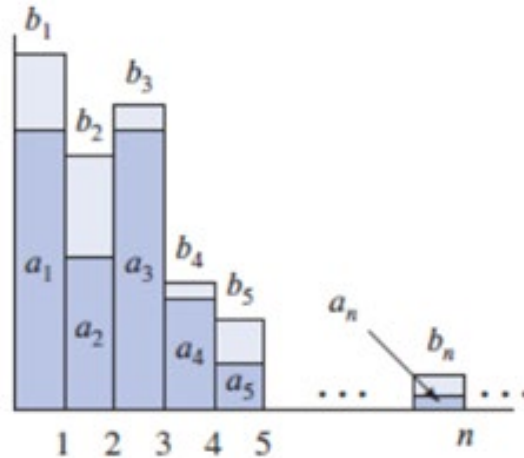


## Direct Comparison Test for Series

Suppose  $0 \leq a_n \leq b_n$  for all  $n$  beyond a certain value.

- If  $\sum b_n$  converges, then  $\sum a_n$  converges.
- If  $\sum a_n$  diverges, then  $\sum b_n$  diverges.



Each  $a_n$  is represented by the area of a dark rectangle.

Each  $b_n$  is represented by the area of a dark plus a light rectangle.

