Question

Try to think of a specific example for each of a_n, b_n, c_n and d_n . For one of them, there cannot be any example, because the situation described is impossible. Which one is impossible?

- A. The sequence a_n is positive and decreasing and $\sum_{n=1}^{n} a_n$ diverges.
- B. The sequence b_n alternates and $\sum_{n=1}^{\infty} b_n$ converges.

C.
$$\lim_{n \to \infty} c_n = 0$$
 and $\sum_{n=1}^{\infty} c_n = 1$.
D. $\lim_{n \to \infty} d_n = 1$ and $\sum_{n=1}^{\infty} d_n = 1$.

