Alternating Series Test

Question

If a_k is positive and decreasing to 0, then the alternating series $\sum_{k=1}^{\infty}(-1)^{k-1}a_k$ converges to some value s. Rank the n^{th} partial sums s_1, s_{100}, s_{329}, the actual sum s, and the number 0, from smallest to greatest.

A. $s_{100} \leq 0 \leq s \leq s_{329} \leq s_1$

B. $0 \leq s_{100} \leq s \leq s_{329} \leq s_1$

C. $0 \leq s_{100} \leq s \leq s_1 \leq s_{329}$

D. $s_{100} \leq 0 \leq s \leq s_1 \leq s_{329}$