Math 131
Warm-up 17

Name:

Let $\{x_n\}$ be a bounded sequence of reals, and let $A = \{x \in \mathbb{R} | x < x_n$ for infinitely many $n\}$. Prove that for some $p \in \mathbb{R}$, either $A = (-\infty, p)$ or $A = (-\infty, p]$.