ZR (5)

For $\mathbb{Z}_{(2)}$ there is a unique ordering $<_{(2)}$ such that

$$n <_{(2)} n+\tfrac{1}{2}$$

and $n+\tfrac{1}{2} <_{(2)} n+1$

Similarly, one can generate the ordered set $(\mathbb{Z}_{(4)}, <_4)$ where $\mathbb{Z}_{(2)} \subsetneq \mathbb{Z}_{(4)}$ and $<_4$ extends $<_2$