

POW 2015-23

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$f(x) = \text{frac}(2x)$, so its 7-times iteration is $\text{frac}(2^7x)$. Thus the fixed points are those $x \in [0, 1)$ such that $\text{frac}(2^7x) = x$, or equivalently, $127x \in \mathbb{N}$. They are exactly $0, 1/127, 2/127, \dots, 126/127$.