

Initial Value: $-\text{Inf}$

Iteration 1: $\boxed{\max\{-\text{Inf}, 1\}}, 4, 2, 8]$

Iteration 2: $\boxed{\max\{1, 4\}}, 2, 8]$

Iteration 3: $\boxed{\max\{4, 2\}}, 8]$

Iteration 4: $\boxed{\max\{4, 8\}}$

Final Output: $\boxed{8}$