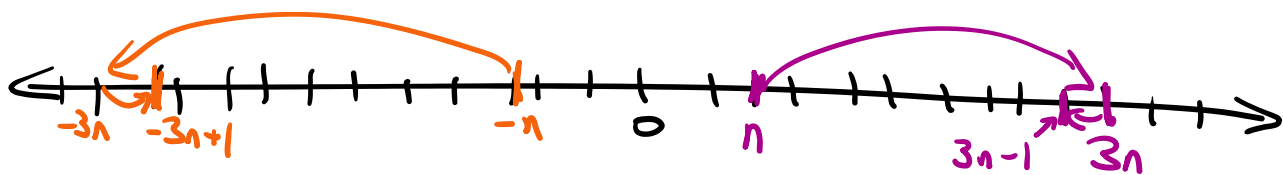


Collatz: $3n+1$ if n odd

Variant: $3n-1$ if n odd



Apply Collatz function
to negative integers

Apply the $3n-1$ function
to positive integers

These are the same by
symmetry!