Proof For Feedback

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Please write your best written proof of the following theorem. You will be graded on logic as well as writing.

Theorem 1. *There is a bijection between the sets $\mathbb{N}$ and $\mathbb{Z}$.*

Hint: $f(1) = 0, f(2) = 1, f(3) = -1, f(4) = 2, f(5) = -2, \ldots$.