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Given $\{1, 2, 3, \dots\}$

what do we do next?

Ans: Fiddle with what we have.

What is the 2nd successor
of 1? of 2? etc.

What is the k^{th} successor
of n ?

These questions lead
to the discovery of the
operation of addition
on \mathbb{N} . Since this
operation is one-to-
one it can (often) be
inverted. Hence