Minimal super task [on hold]

-5

The limit of the sequence (s_n) with $s_n = \{n\}$ is the empty set. This means, among others, t no natural number $n \in \mathbb{N}$, that remains in all terms of the sequence.

The ordered character of the natural numbers allows us to understand this sequence as a supe transferring the complete set $\mathbb{N}$ from a reservoir ***A*** to a reservoir ***Z***. Every single transfer of a n number during the super task can be represented by a term of the sequence and vice versa.

However, if we introduce an intermediate reservoir ***M*** and define that every transfer has to pas further, that a number n may leave ***M*** only *after* the number $n + 1$ has been inserted into ***M***, t have the same limit, i.e., the whole set $\mathbb{N}$ will finally be in ***Z*** although this can be excluded by th of the super task.

How can this contradiction be solved?

set-theory

share edit flag

edited 12 hours ago

asked 12 hours ago

illegal border