$$
\begin{aligned}
&A == [ns : \mathbb{F}\,\mathbb{N}_1] \\
&AInit == [A\,' \mid ns' = \varnothing] \\
&New == [\Delta A;\; n? : \mathbb{N}_1 \mid ns' = ns \cup \{n?\}] \\
&MSF == [\Xi A;\; m! : \mathbb{N}_1 \mid ns \neq \varnothing;\; m! = max\ ns]
\end{aligned}
$$

Injective seq ensures the 2 msf are unique.

$AM2SF$

$$
\begin{array}{|l}
\Xi A \\
m1!, m2! : \mathbb{N}_1 \\
\hline
\#\, ns > 1 \\
m1! = max\ ns \\
m2! = max\ (ns \setminus \{m1!\}) \\
\hline
\end{array}
$$

$C3$

$$
\begin{array}{|l}
cs : \mathrm{iseq}\,\mathbb{N}_1 \\
\hline
(\_ < \_) \operatorname{;} cs \subseteq cs \operatorname{;} (\_ < \_) \\
\hline
\end{array}
$$

$C3Init$

$$
\begin{array}{|l}
C3\,' \\
\hline
cs' = \langle\rangle \\
\hline
\end{array}
$$

$$LI3 == [A;\; C3 \mid ns = ran\ cs]$$

Note $cs \setminus \langle ma! \rangle$ is not equivalent, because a sequence is a function, and the domain mapping of $\langle ma! \rangle$ is different to cs
(You did it wrong this way before)

$C3MSF2$

$$
\begin{array}{|l}
\Xi C3;\; ma!, mb! : \mathbb{N}_1 \\
\hline
\#(ran\ cs) \geq 2 \\
ma! = last\ cs \\
mb! = cs\,(\#\, cs - 1) \\
\hline
\end{array}
$$