

$Trace == seq \mathbb{N}_1$

$WidgetNodule$

$seen : Trace$

$WidgetNoduleInit$

$WidgetNodule'$

$seen' = \langle \rangle$

$NewEntry$

$\Delta WidgetNodule$

$in? : \mathbb{N}_1$

$seen' = seen \frown \langle in? \rangle$

$MaxSoFar$

$\Xi WidgetNodule$

$mx! : \mathbb{N}_1$

$mx! = max \text{ ran } seen$