

number of total meeting after which *chameneoses* fade

$$\wedge \text{numMeetings}' = \text{numMeetings} + 1$$

$$\begin{aligned} \text{Init} &\triangleq \wedge \text{chameneoses} = [c \in \text{ChameneosID} \mapsto \\ &\quad \langle \langle \text{"blue"}, \text{"red"}, \text{"yellow"}, \text{"blue"} \rangle [c], 0 \rangle] \\ &\quad \wedge \text{meetingPlace} = \text{MeetingPlaceEmpty} \\ &\quad \wedge \text{numMeetings} = 0 \end{aligned}$$

repeatedly try to enter meeting place for *chameneoses* that are not faded yet

$$\text{Next} \triangleq \wedge \exists c \in \{x \in \text{ChameneosID} : \text{chameneoses}[x][1] \neq \text{Faded}\} : \text{Meet}(c)$$

$$\text{Spec} \triangleq \text{Init} \wedge \Box[\text{Next}]_{\text{vars}}$$

$$\begin{aligned} \text{SumMet} &\triangleq \text{numMeetings} = N \Rightarrow \text{LET } f[c \in \text{ChameneosID}] \triangleq \text{chameneoses}[c][2] \\ &\quad \text{IN } \text{Sum}(f, \text{ChameneosID}) = 2 * N \end{aligned}$$