

*STUDENT*

*maxPlayers* :  $\mathbb{N}$

*maxPlayers* = 20

*ClubState*

*badminton* :  $\mathbb{P} \textit{STUDENT}$

*hall* :  $\mathbb{P} \textit{STUDENT}$

*hall*  $\subseteq$  *badminton*

$\#$  *hall*  $\leq$  *maxPlayers*

*ClubState2*

*ClubState*

*onCourt* :  $\mathbb{P} \textit{STUDENT}$

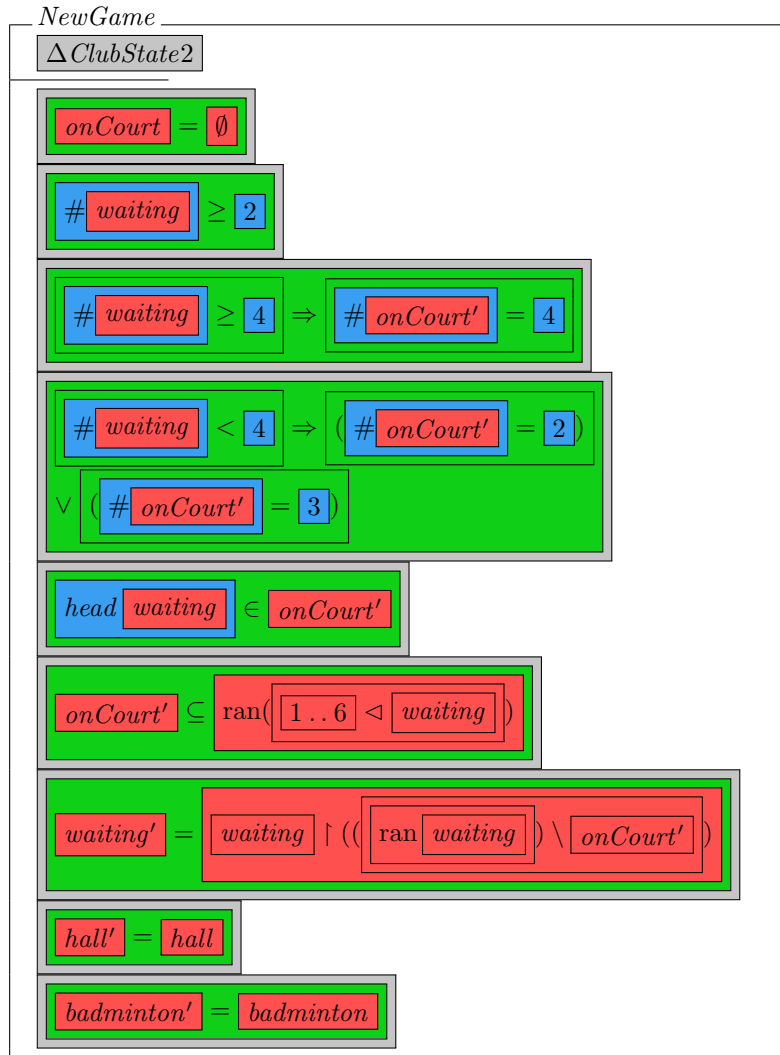
*waiting* :  $\textit{iseq} \textit{STUDENT}$

$\langle \textit{onCourt}, \text{ran } \textit{waiting} \rangle$  partition *hall*

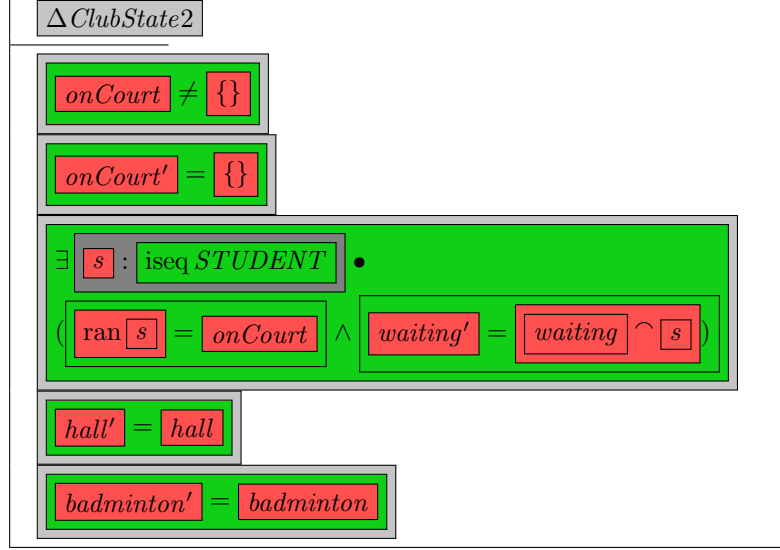
*InitClubState2*

*ClubState2*

*badminton'* =  $\{\}$



*FinishGame*



*LeaveHall*

