

Let  $PERSON$  be the set of all people:

$[PERSON]$ .

A ‘club’ has a set of members and a president, who is one of the members:

|                               |  |
|-------------------------------|--|
| $Club$                        |  |
| $members : \mathbb{P} PERSON$ |  |
| $president : PERSON$          |  |
| $president \subseteq members$ |  |

To enroll somebody in the club, we just add them to the set of members:

|                                |  |
|--------------------------------|--|
| $Enroll$                       |  |
| $\Delta Club$                  |  |
| $new? : PERSON$                |  |
| $members' = members \cup new?$ |  |
| $president' = president$       |  |

The president doesn’t change when a new member is enrolled.