

// The chair = founder as the chair rotate and resign operations are not required.

[*PERSON*]

EVENT ::= *NEW*⟨⟨*PERSON*⟩⟩ | *RESIGN*⟨⟨*PERSON*⟩⟩ | *COUNTORDINARY*⟨⟨ \mathbb{N} ⟩⟩

Trace == *seq EVENT*

CommitteeStruct _____

tr : *Trace*

NewMemberNotCurrent _____

tr : *Trace*

$\forall t : \text{Trace}; p : \text{PERSON} \mid tr = t \frown \langle \text{NEW } p \rangle \bullet$
 $\exists s == t \upharpoonright \{ \text{NEW } p, \text{RESIGN } p \} \bullet$
 $s = \langle \rangle \vee \text{last } s = \text{RESIGN } p$

/Subtract the number of times someone resigns from the number of times they join.

CorrectCount _____

tr : *Trace*

$\forall t : \text{Trace}; n : \mathbb{N} \mid tr = t \frown \langle \text{COUNTORDINARY } n \rangle \bullet$
 $n = \#(t \upharpoonright \text{ran NEW}) - \#(t \upharpoonright \text{ran RESIGN})$

Resignation _____

tr : *Trace*

$\forall t : \text{Trace}; p : \text{PERSON} \mid tr = t \frown \langle \text{RESIGN } p \rangle \bullet$
 $\exists s == t \upharpoonright \{ \text{NEW } p, \text{RESIGN } p \} \bullet$
 $s \neq \langle \rangle \wedge \text{last } s = \text{NEW } p$