—————— MODULE *Utils* ——————

EXTENDS *Integers*

$Max(n1, n2) \triangleq$ IF $n1 > n2$ THEN $n1$ ELSE $n2$

Stuff about relations

$Domain(R) \triangleq \{r[1] : r \in R\}$

$Image(R) \triangleq \{r[2] : r \in R\}$

$TransitiveClosure(R) \triangleq R \cup$
$\quad \{r \in Domain(R) \times Image(R) :$
$\quad\quad \exists z \in Domain(R) : \langle r[1], z \rangle \in R \wedge \langle z, r[2] \rangle \in R\}$