Algorithm 3 Invariant preservation restrictions discovery	
$\mathbf{inction}$ IPRDISCOVER (T,R)	$\triangleright T$: the set of shadow operations of the target
ystem, R : the restriction set	
ICSETDISCOVER $(T, \wp(T))$	▷ Compute all I-conflict sets
for all $T' \in \wp(T)$ do	
if $T'.isIConflict ==$ true (then
if $ T' == 1$ then	
$R \leftarrow R \cup \{r(T_0', T_0')\}$	▷ Restrict self-conflicting operations
else if $\forall u, v \in T', r(u, v)$	$) \notin R$ then \triangleright This set has not been restricted yet.
$R \leftarrow R \cup \{r(T_i', T_j')\},\$, where $i \neq j$ and $T'_i, T'_i \in T'$ \triangleright Restrict any pair
f operations in T'	,
end if	
end if	
end for	
${f return}\ R$	
nd function	
f	stem, R : the restriction set ICSETDISCOVER $(T, \wp(T))$ for all $T' \in \wp(T)$ do if $T'.isIConflict ==$ true if if $ T' == 1$ then $R \leftarrow R \cup \{r(T'_0, T'_0)\}$ else if $\forall u, v \in T', r(u, v)$ $R \leftarrow R \cup \{r(T'_i, T'_j)\}$, operations in T' end if end for return R