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_____ MODULE WorkflowDefinitionPretty EXTENDS WorkflowDefinition
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GIVEN the set of FA tasks:
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CONSTANT Tasks
e.g. Tasks ==
{    [ name |-> "EVI", repeatable |-> FALSE, group |-> "non-destructive" ]
,    [ name |-> "IVI", repeatable |-> FALSE, group |-> "non-destructive" ]
}
```

such that it adheres to the expected structure

```
ASSUME IsFiniteSet(Tasks)

ASSUME \forall task \in Tasks : (\forall id \in DOM(task) : id \in \{\text{"name"}, \text{"repeatable"}, \text{"group"}\})

ASSUME \forall task \in Tasks : task.name \in \text{STRING}

ASSUME \forall task, otherTask \in Tasks : task.name = otherTask.name \Rightarrow task = otherTask

ASSUME \forall task \in Tasks : task.repeatable \in \text{BOOLEAN}

ASSUME \forall task \in Tasks : task.group \in \{\text{"destructive"}, \text{"non-destructive"}, \text{"both"}\}
```

GIVEN the set of connections between FA tasks:

CONSTANT Connections

```
e.g. Connections ==
{    [ name |-> "has_successor", srcName |-> "EVI", dstName |-> "IVI" ]
}
```

such that it adheres to the expected structure

```
 \begin{tabular}{lll} Assume & IsFiniteSet(Connections) \\ Assume & \forall conn \in Connections: \\ & \forall id \in DOM(conn): id \in \{ "name", "srcName", "dstName" \} \\ Assume & \forall conn \in Connections: conn.name \in \\ & \{ "has\_successor" \\ & , "has\_predecessor" \\ & , "has\_mandatory\_predecessor" \\ & , "has\_mandatory\_successor" \\ & \} \\ Assume & \forall conn \in Connections: \exists task \in Tasks: task.name = conn.srcName \\ \end{tabular}
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ASSUME $\forall conn \in Connections : \exists task \in Tasks : task.name = conn.dstName$ ASSUME $\forall conn \in Connections : conn.srcName \neq conn.dstName$

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WHEN checking for errors in an input workflow

CONSTANT Workflow

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e.g. Workflow == << "EVI", "IVI" >>
```

such that it adheres to the expected structure