```
- module Test -
INSTANCE Naturals
INSTANCE Sequences
LOCAL INSTANCE IOUtils
LOCAL INSTANCE Json
CONSTANT File
CONSTANT CurrState
Constant SuccState
FormatOpts \triangleq
   [format]
                     \mapsto "TXT",
    charset
                     \mapsto "UTF-8",
    openOptions \mapsto \langle \text{"WRITE"}, \text{"CREATE"}, \text{"APPEND"} \rangle ]
Delete \triangleq
    \land IOExec(\langle \text{"rm"}, \text{"-f"}, File \rangle).exitValue = 0
Log(context) \triangleq
    LET
        \mathit{currState} \ \stackrel{\triangle}{=} \ [k \in \{k \in \mathsf{DOMAIN} \ \mathit{CurrState} : \mathsf{DOMAIN} \ \mathit{CurrState}[k] \neq \{\}\} \mapsto \mathit{CurrState}[k]]
        succState \triangleq [k \in \{k \in DOMAIN \ SuccState : DOMAIN \ SuccState[k] \neq \{\}\} \mapsto SuccState[k]]
          record \triangleq [context \mapsto context,
                           currState \mapsto currState,
                           succState \mapsto [k \in \{k \in \texttt{Domain} \ succState : k \in \texttt{Domain} \ currState \Rightarrow
                                                       currState[k] \neq succState[k] \mapsto succState[k]]
    IN Serialize(ToJsonObject(record) \circ "\n", File, FormatOpts).exitValue = 0
```