computation tree with labels
(out: $O \to B$, p: $F \to B$,
id: $Q \to \{1,\ldots,k\}$,
d: $\{1,\ldots,k\} \to \mathcal{I}$, succ: $Q \to Q$)

universal and existential
word automata

Verifier:
- follows encoded directions
* for existential transitions*
- follows encoded next-states
* for existential transitions*
- spawns new verifiers on
* universal transitions*

accepting
run tree