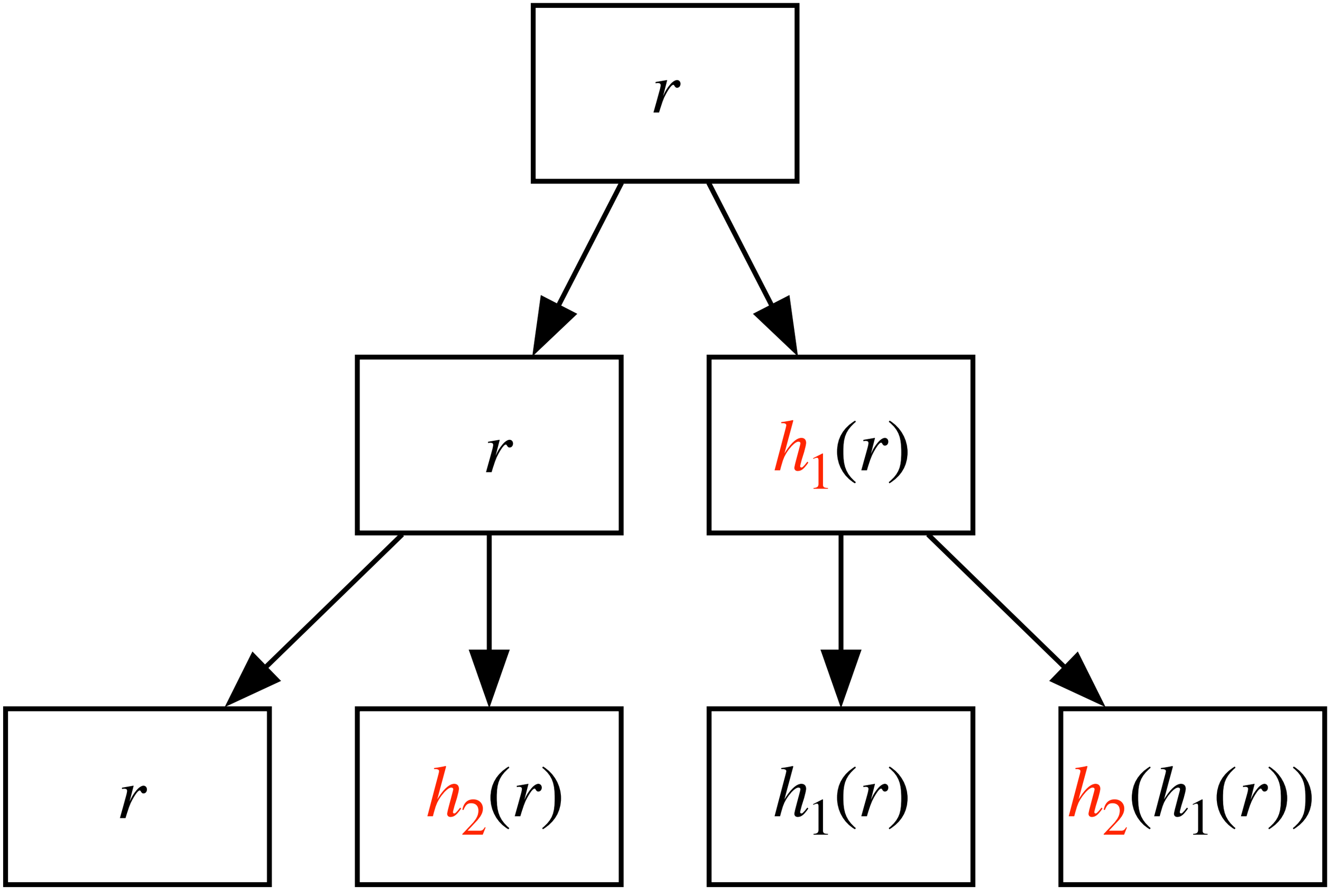
r
r
h1(r)
r
h2(r)
h1(r)
h2(h1(r))

- Let $r \sim \{0,1\}^{\ell}$ and $h_1, \ldots, h_t$ 2-wise independent $\Rightarrow$ seed length of $O(t \cdot \ell)$

- Extending the tree gives a length $2^t \cdot \ell$ length string

Nisan's PRG

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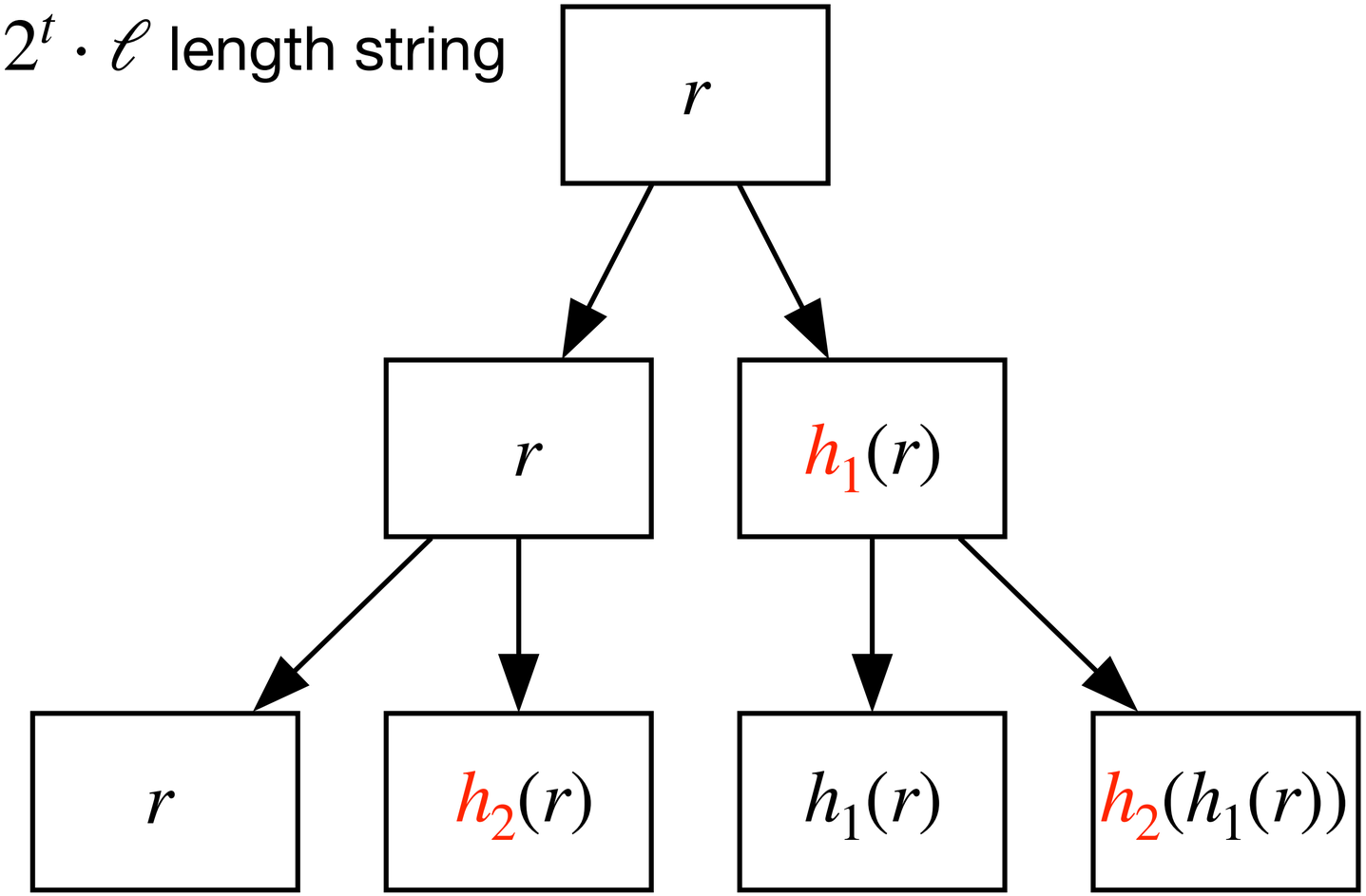

Nisan's Guarantees