$$\frac{}{\langle K, \langle \text{null, Iterator(s.roots)} \rangle :: [] \rangle}$$

*initialConf*

$$\frac{\langle K, \langle s,it \rangle :: S \rangle \wedge \text{!it.hasNext}}{\langle K, S \rangle}$$

*backtrack(c)*

$$\frac{\langle K, \langle s,it \rangle :: S \rangle \wedge \text{it.hasNext} \wedge (n = \text{it.peek}) \in K}{\langle K, \langle s, \text{it.next} \rangle :: S \rangle \rangle}$$

*known(n)*

$$\frac{\langle K, \langle s,it \rangle :: S \rangle \wedge \text{it.hasNext} \wedge (n = \text{it.peek}) \notin K}{\langle K \cup \{n\}, \langle n, \text{Iterator(s.neighbors(n))} \rangle :: \langle s, \text{it.next} \rangle :: S \rangle \rangle}$$

*unknown(n)*

$$\frac{\langle K, [] \rangle}{\langle K, [] \rangle}$$

*end*