

**procedure** *extendFrontier*(model  $M$ ,  $k : \mathbb{N}$ )

$F_{k+1} := \{s \mid p \in L(s)\};$

**while**  $F_k \wedge R \wedge \neg p'$  is SAT **do**

$s' :=$  state labeled with  $\neg p$  extracted from satisfying assignment

$s :=$  predecessor of  $s'$  extracted from satisfying assignment

*removeCTI*( $M, s, k$ )

**end while**

**end procedure**