

# CDCL の動作

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**Algorithm 2.2:** DPLL-ClauseLearning-Iterative

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**Input** : A CNF formula

**Output** : UNSAT, or SAT along with a satisfying assignment

**begin**

**while** TRUE **do**

        DecideNextBranch

**while** TRUE **do**

            status  $\leftarrow$  Deduce

**if** *status* = *CONFLICT* **then**

                blevel  $\leftarrow$  AnalyzeConflict

**if** *blevel* = 0 **then return** UNSAT

                Backtrack(*blevel*)

**else if** *status* = *SAT* **then**

                Output current assignment stack

**return** SAT

**else break**

**end**