

**function** SATPLAN(*init*, *transition*, *goal*,  $T_{\max}$ ) **returns** solution or *failure*  
**inputs:** *init*, *transition*, *goal*, constitute a description of the problem  
     $T_{\max}$ , an upper limit for plan length

**for**  $t = 0$  **to**  $T_{\max}$  **do**  
     $cnf \leftarrow \text{TRANSLATE-TO-SAT}(\textit{init}, \textit{transition}, \textit{goal}, t)$   
     $model \leftarrow \text{SAT-SOLVER}(cnf)$   
    **if** *model* is not null **then**  
        **return** EXTRACT-SOLUTION(*model*)

**return** *failure*