

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**
 $cnf \leftarrow$ TRANSLATE-TO-SAT(*init*, *transition*, *goal*, t)
 $model \leftarrow$ SAT-SOLVER(cnf)
 if $model$ is not null **then**
 return EXTRACT-SOLUTION($model$)
return *failure*