
Listing 1: Table algorithm $S_{\text{Alg}}(t, \chi(t), \varphi_t, \langle \tau_1, \dots, \tau_\ell \rangle)$ for #SAT using nice TDs.

In: Node t , bag $\chi(t)$, clauses φ_t , sequence $\langle \tau_1, \dots, \tau_\ell \rangle$ of child tables. **Out:** Tab τ_t .

```

1 if type( $t$ ) = leaf then  $\tau_t := \{\{\textcolor{teal}{cnt}, 1\}\}$ 
2 else if type( $t$ ) = intr, and  $a \in \chi(t)$  is introduced then
3   |  $\tau_t := \rho_{\varphi_t}(\tau_1 \times \{\{(a, 0)\}, \{(a, 1)\}\})$ 
4 else if type( $t$ ) = rem, and  $a \notin \chi(t)$  is removed then
5   |  $\tau_t := \chi(t) G_{\sum(cnt)}(\Pi_{\chi(t) \cup \{cnt\}}(\tau_1))$ 
6 else if type( $t$ ) = join then
7   |  $\tau_t := \Pi_{\chi(t)_{cnt}^+} [\Pi_{cnt \leftarrow cnt_1 \cdot cnt'} (\rho_{\{cup \mapsto cup_1\}} \tau_1 \bowtie_{a \in \chi(t)} a \approx a' \rho_{\{a \mapsto a' | a \in \chi(t)_{cnt}^+\}}(\tau_2))]$ 

```
