**Algorithm 1** Identifying Points of Delay

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1: contraction_adj $\leftarrow RV_{adj}^{f}[0]$
2: **for each** column $y$ in contraction_adj **do**
3:     **if** contraction_adj$[y] = 1$ **then**
4:         constraints_stack $\leftarrow \emptyset$                      ▷ Initialize empty set
5:         constraints_counter $\leftarrow 0$
6:         **for each** row $x$ in $RV_{C}^{f}[y]$ **do**
7:             **if** $x \neq$ null $\land x \neq \epsilon \land x \notin$ constraints_stack **then**
8:                 Add $x$ to constraints_stack
9:                 constraints_counter $\leftarrow$ constraints_counter $+ 1$
10:             **end if**
11:         **end for**
12:         **if** constraints_counter $> 1$ **then**
13:             $y \leftarrow y \cup dV$
14:         **end if**
15:     **end if**
16: **end for**

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