

```

1   $V^* \leftarrow 0$  ;  $V^c \leftarrow \mu$  ;  $\delta \leftarrow \bar{a}$  ;
2  while  $V^* \neq V^c$  do
3       $V^* \leftarrow V^c$  ;
4      for  $a \in \mathcal{A}$  do
5           $q^a \leftarrow$  swap each  $X_i$  variable in  $V^*$  with  $X'_i$  ;
6          for  $1 \leq i \leq n$  do
7               $q^a \leftarrow \boxed{\min} \{ q^a, \pi(X'_i \mid \text{parents}(X'_i), a) \}$  ;
8               $q^a \leftarrow \boxed{\max}_{X'_i} q^a$  ;
9           $V^c \leftarrow \boxed{\max} \{ q^a, V^c \}$  ;
10         update  $\delta$  to  $a$  where  $q^a = V^c$  and  $V^c > V^*$  ;
11 return  $(V^*, \delta)$  ;

```