Algorithm 2: Function $t\_merge(T_1, T_2)$

Input: Two tables T_1 and T_2 that may share common nodes

Output: A merged table T_{out}

```
1  Initialization: Clear table T_out
2  set C = the set of common nodes between T_1 and T_2
3  foreach (pair of state types key_1 ∈ T_1 and key_2 ∈ T_2) do
4      if (any node in C lies in two different positions in key_1 and key_2) then
5          continue
       end
6      set key_out = the state type obtained from node positions in key_1 and key_2,
                     and the partition computed by p_merge(key_1, key_2)
7      set p_out = T_1(key_1) × T_2(key_2) adjusted to take the effect of common nodes in
                   C into consideration
8      if (key_out ∈ T_out) then
9          update T_out(k_out) +=p_out
       end
       else
10         set T_out(key_out) = p_out
       end
   end
11 return T_out
```