This is a simple example for algorithm

Algorithm 1: Restriction

Data: $G = (X, U)$ such that G^{tc} is an order.
Result: $G' = (X, V)$ with $V \subseteq U$ such that G'^{tc} is an interval order.

```
1  begin
2      V ⟵ U
3      S ⟵ ∅
4      for x ∈ X do
5          NbSuccInS(x) ⟵ 0
6          NbPredInMin(x) ⟵ 0
7          NbPredNotInMin(x) ⟵ |ImPred(x)|
8      end
9      for x ∈ X do
10         if NbPredInMin(x) = 0 and NbPredNotInMin(x) = 0
            then
11             AppendToMin(x)
12         end
13     end
14     while S ≠ ∅ do
15         remove x from the list of T of maximal index
16         while |S ∩ ImSucc(x)| ≠ |S| do
17             for y ∈ S − ImSucc(x) do
18                 { remove from V all the arcs zy : }
19                 for z ∈ ImPred(y) ∩ Min do
20                     remove the arc zy from V
21                     NbSuccInS(z) ⟵ NbSuccInS(z) − 1
22                     move z in T to the list preceding its present list
23                     {i.e. If z ∈ T[k], move z from T[k] to T[k − 1]}
24                 end
25                 NbPredInMin(y) ⟵ 0
26                 NbPredNotInMin(y) ⟵ 0
27                 S ⟵ S − {y}
28                 AppendToMin(y)
29             end
30         end
31         RemoveFromMin(x)
32     end
33 end
```