Algorithm 3: function $p\_merge(P_1, P_2)$

Input: Two partitions P_1 and P_2

Output: A partition P

Notation: s and t are two set iterators and their corresponding set are indicated by s^* and t^*.

```
1  foreach ( set s* in P2) do
2  |   P1.push_back(s*)
   end
3  for (s = P1.begin(); s ≠ P1.end(); ++s) do
4  |   for (t = s.next(); t ≠ P1.end(); ++t) do
5  |   |   if (s* ∩ t* ≠ ∅) then
6  |   |   |   P1.push_front(s* ∪ t*)
7  |   |   |   P1.delete(s*)
8  |   |   |   P1.delete(t*)
9  |   |   |   s = P1.begin()
10 |   |   |   break
   |   |   end
   |   end
   end
11 set P = P1
   return P
```