**Place product with respect two sets of places in net N**

Let A={ai: i is in I} and B={bj: j is in J} will be two disjoint sets of places in net N. Place product of A and B is a net obtained by removing the places in the two sets and adding new places C={cij : i in I and j in J}.

* Every arc originally connected to place ak, k in I is now replaced by arcs connected in the same way to ck,j for j in J.
* Every arc originally connected to place bl, l in J is now replaced by arcs connected in the same way to ci,l for i in I.