New Algorithm For MCB of Join Of Two Graphs G and H

$\mathcal{C} \leftarrow 0$
for a vertex $v_g \in V(G)$ **do**
  for all $e = \{xy\} \in E(H)$ **do**
    Add to $\mathcal{C}$ the cycle $c = v_g x + v_g y + e$
  end for
end for

for a vertex $v_h \in V(H)$ **do**
  for all $e = \{xy\} \in E(G)$ **do**
    Add to $\mathcal{C}$ the cycle $c = v_h x + v_h y + e$
  end for
end for

Suppose T_H is a spanning tree of graph H

for all $v_i \in V(G)$ such that $v_i \neq v_g$ **do**
  for all $e = \{xy\} \in E(T_H)$ **do**
    Add to $\mathcal{C}$ the cycle $c = v_i x + v_i y + e$
  end for
end for
Return $\mathcal{C}$