V := list of vertices of G

sort V by indirect betweenness centrality

S := {}

done := false

**while** not done

 M := min(M,length(V))

 let V1 be the first M vertices in V

 find S2⊂V1 such that KC(S∪S2) is maximal

 **if** S2 ≠ {}

 S := S∪S2

 V := V-S2

 **else** done := true

**end**

done := false

**while** V ≠ {} and not done

 find some i∈V such that KC(S∪{i}) is maximal

 **if** KC(S∪{i})>KC(S)

 S := S∪{i}

 V := V-{i}

 **else** done = true

**end**