```
1: function selectCycle(nodes)
2:     for i 0 to nodes.size do
3:         N_i^1 is 1-hop neighbours of node i
4:         N_i^2 is 2-hop neighbours of node i
5:         if S1 intersects N_i^1 then
6:             Connect neighbour to that node
7:             if S2 intersects N_i^2 then
8:                 If this cycle is minimum, keep this and discard previous
9:             end if
10:        end if
11:    end for
12: end function
```