```
1: function INITIATE(nodes)
2:     for i 0 to nodes.size do
3:         if i is hole boundary node then
4:             if i has no hole boundary neighbours then
5:                 add i to initiators
6:             else if i has minimum id than its hole boundary neighbours then
7:                 add i to initiators
8:             end if
9:         end if
10:    end for
11:    for i 0 to initiators.size do
12:        i.table.nodeSeq ← i.id
13:        i.table.type ← 0
14:        i.broadcast()
15:        upon receiving all messages if any two messages
16:        if first id's are same, last id's are different and not neighbours then
17:            this is considered as cycle
18:            If this is not already found it will be added to holes
19:            If one cycle bounds other then minimum cycle is kept
20:        end if
21:    end for
22: end function
```