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1: procedure ANALYZE(profiles)
2:   profiles = sorted(profiles, priority)
3:   for required in profiles do
4:     transmitted_nodes = []
5:     for receiver in profile.receivers() do
6:       route = profile.route
7:       for node in route do
8:         if node in transmitted_nodes and multicast == True then
9:           Continue
10:        end if
11:        provided = node.provided
12:        [output, remaining, received] = convolve(required, provided)
13:        node.provided = remaining
14:        required = received
15:        transmitted_nodes.append(node)
16:      end for
17:      [recv_output, recv_remaining, ] = convolve(required, receiver)
18:    end for
19:  end for
20: end procedure
```