

```
1: procedure ANALYZE(profiles)
2:   profiles = sorted(profiles, priority)
3:   for required in profiles do
4:     route = profile.route
5:     while route.hasNodes() do
6:       node = route.popNode()
7:       provided = node.provided
8:       [output, remaining, received] = analyze(required, provided)
9:       node.provided = remaining
10:      required = received
11:    end while
12:  end for
13: end procedure
```