

MAX-FLOW-BY-SCALING(G, s, t)

1 $C = \max \{c(u, v) : (u, v) \in E\}$

2 initialize flow f to 0

3 $K = 2^{\lceil \lg C \rceil}$

4 **while** $K \geq 1$

5 **while** there exists an augmenting path p of capacity at least K

6 augment flow f along p

7 $K = K/2$

8 **return** f