Edmonds-Karp Algorithm

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EDMONDS-KARP(G, s, t)

1 for each edge (u, v) \in G.E

2 (u, v).f = 0

3 while BFS gives a path p from s to t in the residual network G_f

4 c_f(p) = \min \{c_f(u, v) : (u, v) \text{ is in } p\}

5 for each edge (u, v) in p

6 if (u, v) \in E

7 (u, v).f = (u, v).f + c_f(p)

8 else (v, u).f = (u, v).f - c_f(p)
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