
Algorithm 2.1 FORD-FULKERSON

Input. Network $N = (G, c, s, t)$ with $c : A \rightarrow \mathbb{N}$.

Output. $s - t$ -flow f of maximum value.

Step 1. Set $f(e) = 0$ for all $e \in A$.

Step 2. Find an f -augmenting path P . If none exists then return f .

Step 3. Compute

$$\alpha = \min\{c(e) - f(e) : e \text{ forward edge in } P\} \cup \{f(e) : e \text{ backward edge in } P\}.$$

and augment f by α along P . Go to Step 2
