

Ford-Fulkerson Algorithm

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FORD-FULKERSON( $G, s, t$ )
1  for each edge  $(u, v) \in G.E$ 
2       $(u, v).f = 0$ 
3  while there exists 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  $(u, v) \in G.E$ 
7               $(u, v).f = (u, v).f + c_f(p)$ 
8          else  $(v, u).f = (v, u).f - c_f(p)$ 
9  return  $f$ 
```