

## Ford-Fulkerson Algorithm (Give it a try on the graph below!)

▷ start with  $f(e) = 0$  for all arcs  $e$

▷ while there is an *augmenting path* from  $s$  to  $t$ :

- choose any such path  $s = x_0, x_1, \dots, x_k = t$ .
- augment the flow along this path as much as possible, i.e.:
  - increase  $f$  on “forward” arcs  $(x_i, x_{i+1})$
  - decrease  $f$  on “backward” arcs  $(x_{i+1}, x_i)$

▷ output  $f$

