

## 7. NETWORK FLOW I

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▶ *Ford–Fulkerson demo*

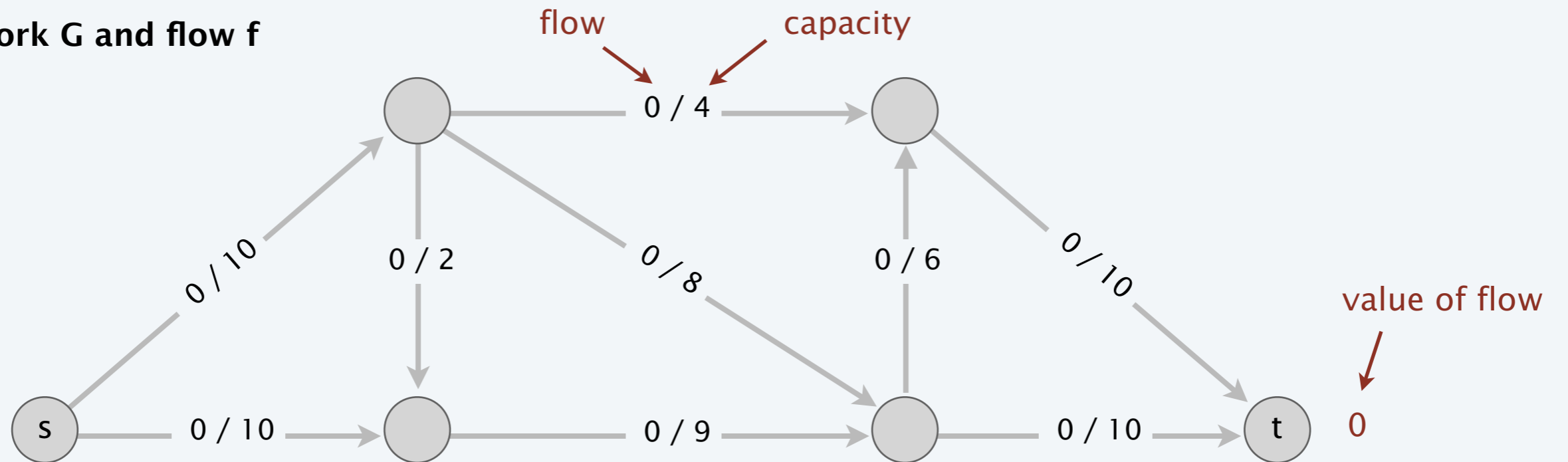
Lecture slides by Kevin Wayne

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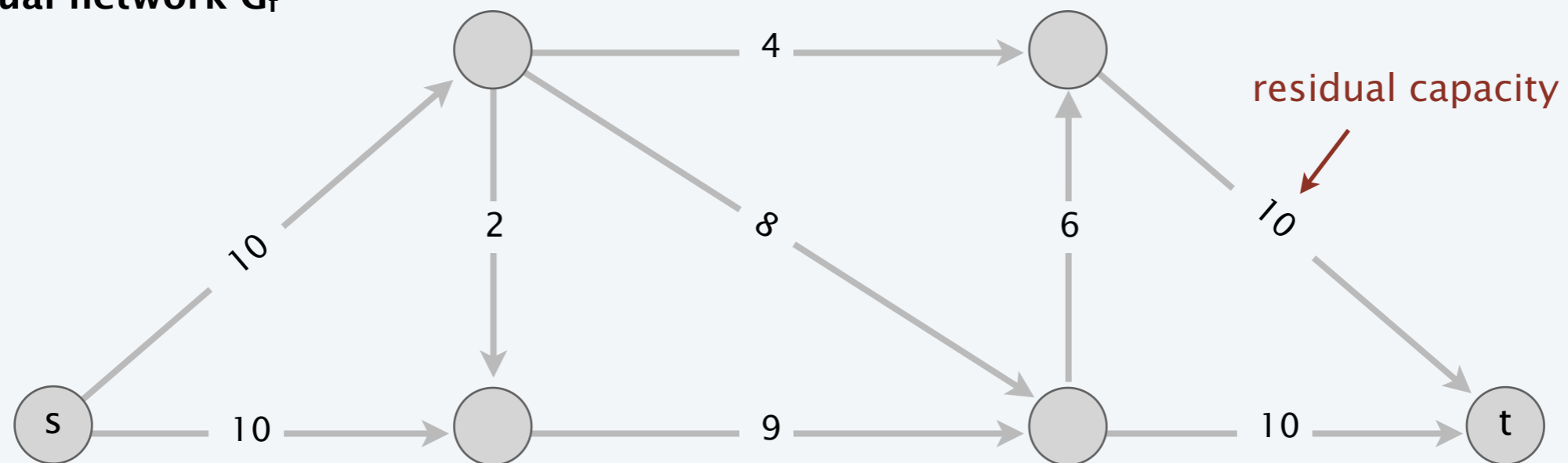
<http://www.cs.princeton.edu/~wayne/kleinberg-tardos>

# Ford-Fulkerson algorithm demo

network G and flow f

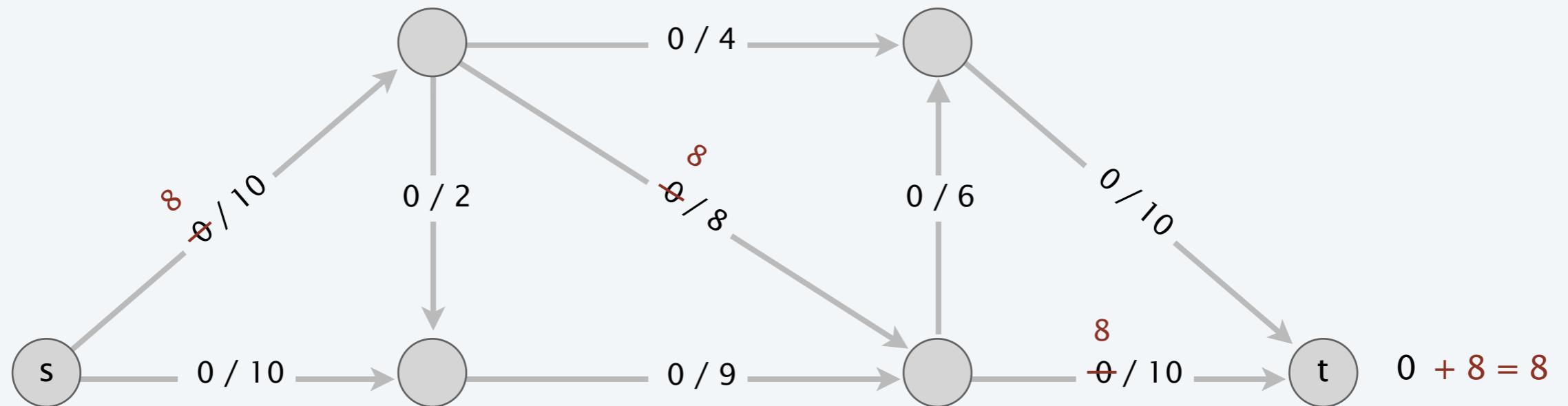


residual network  $G_f$

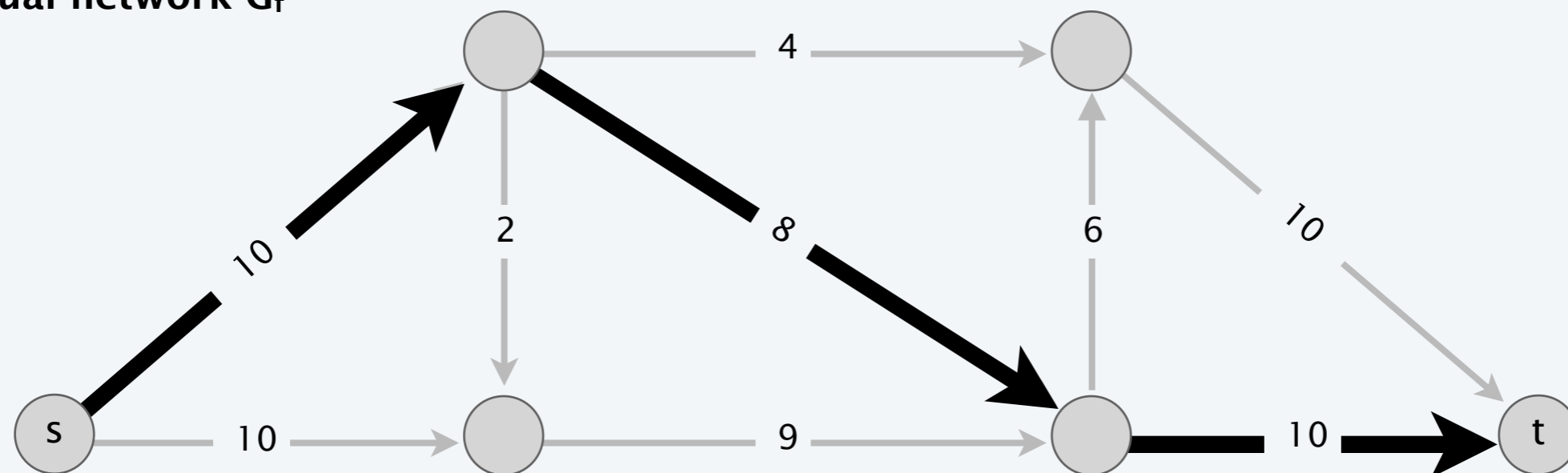


# Ford-Fulkerson algorithm demo

network G and flow f

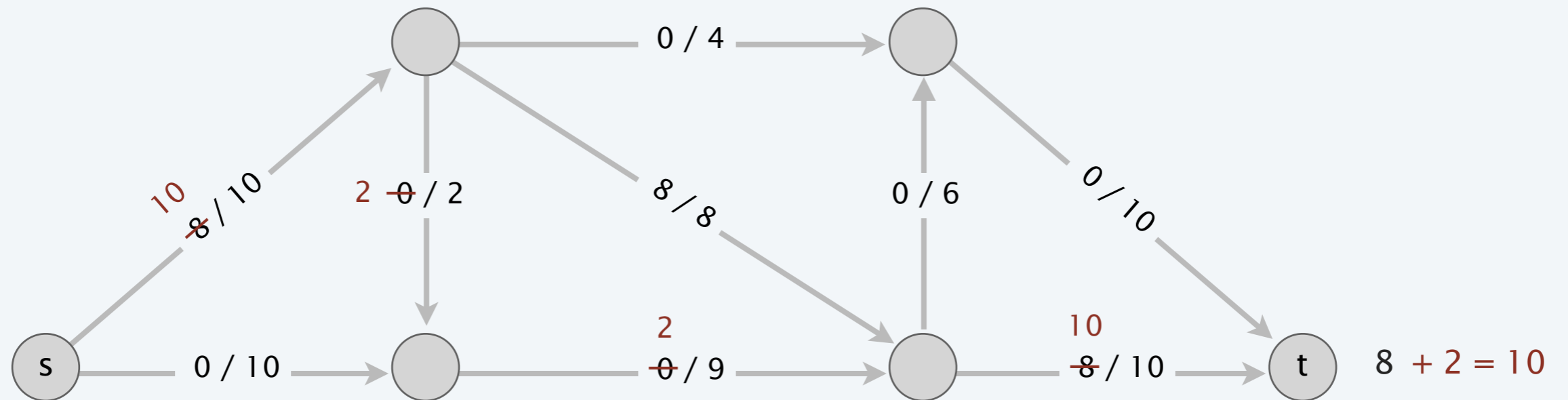


residual network  $G_f$

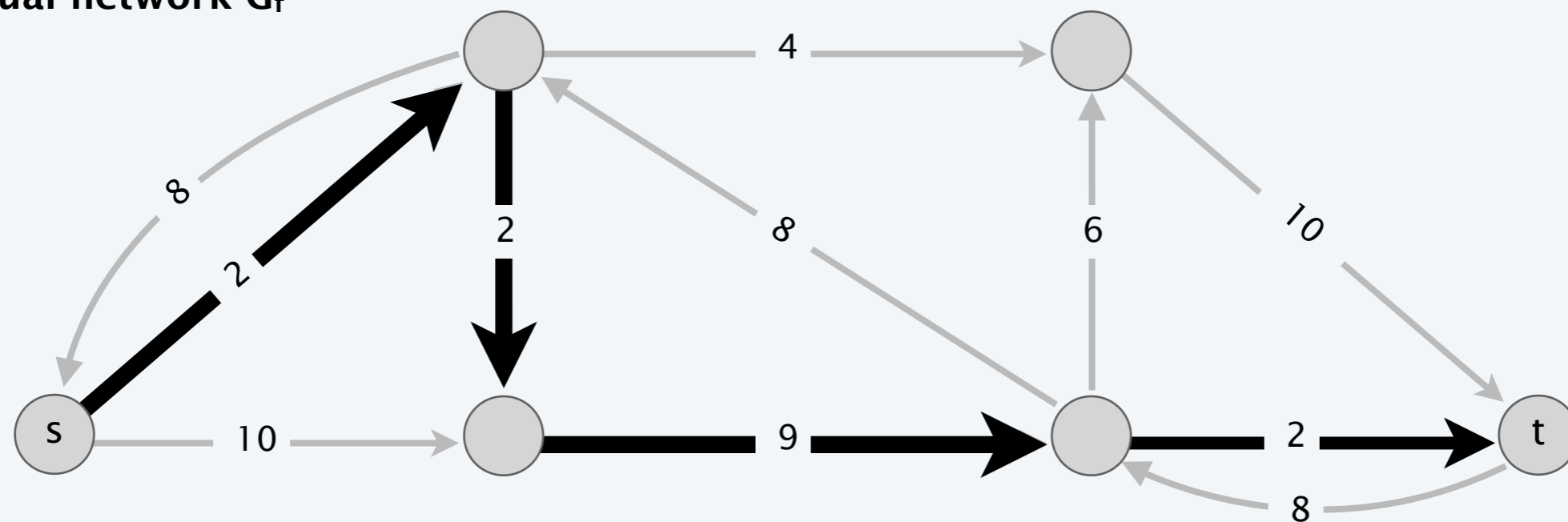


# Ford-Fulkerson algorithm demo

network G and flow f

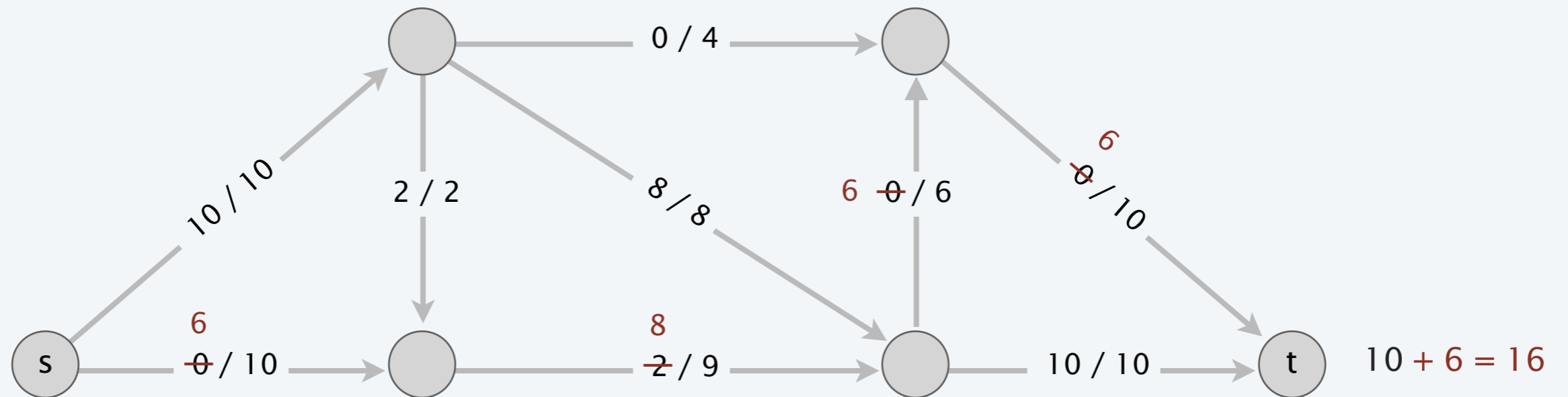


residual network G<sub>f</sub>

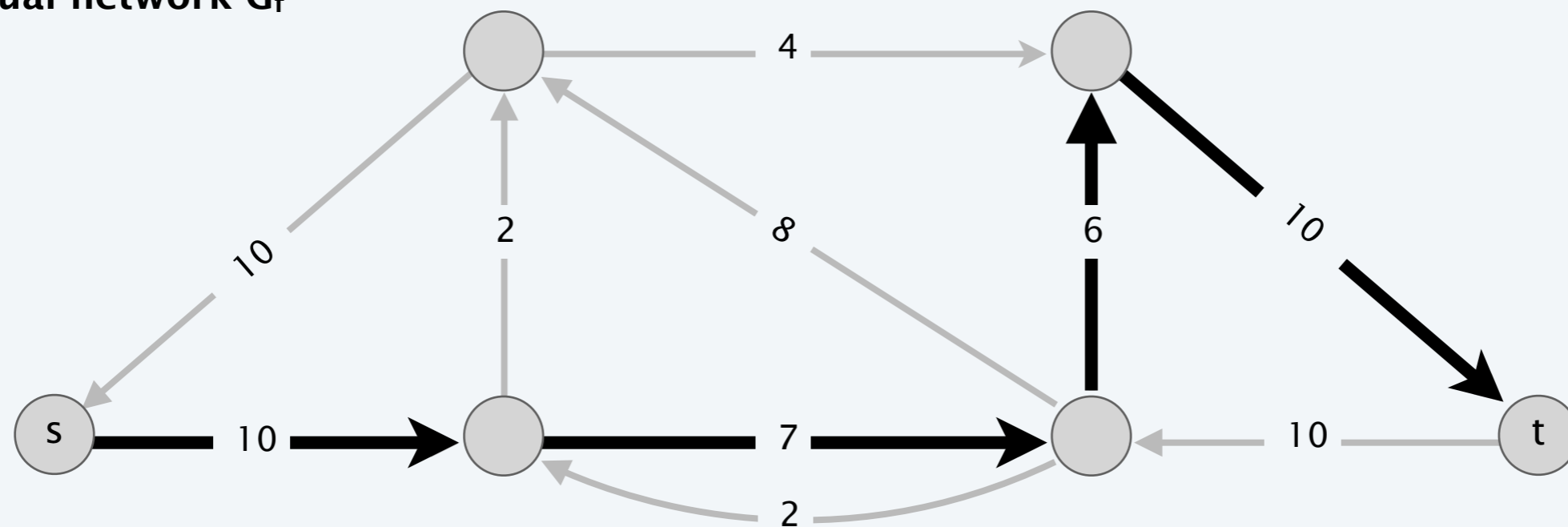


# Ford-Fulkerson algorithm demo

network G and flow f

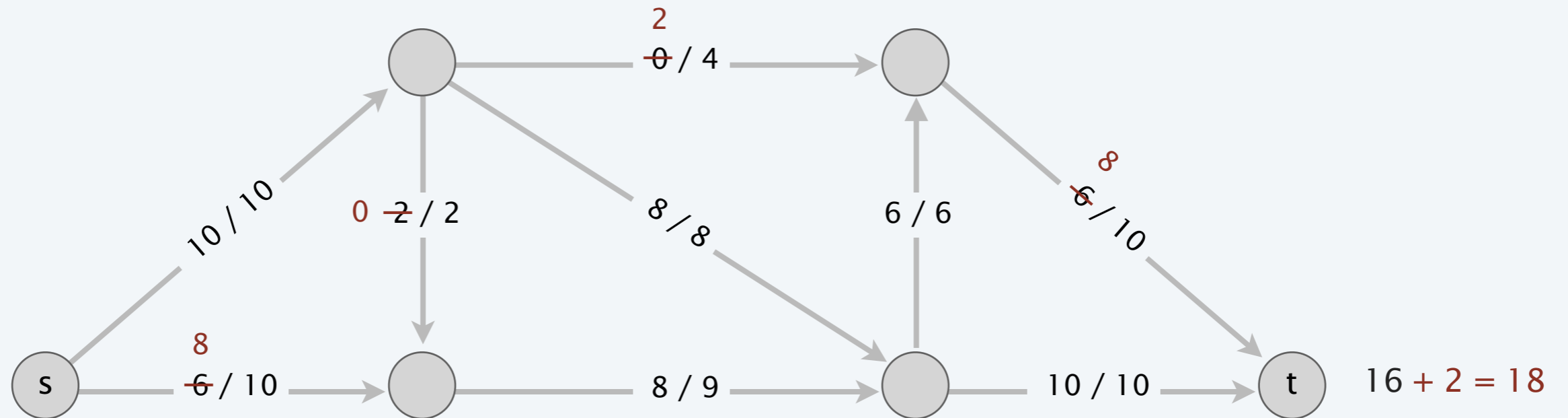


residual network  $G_f$



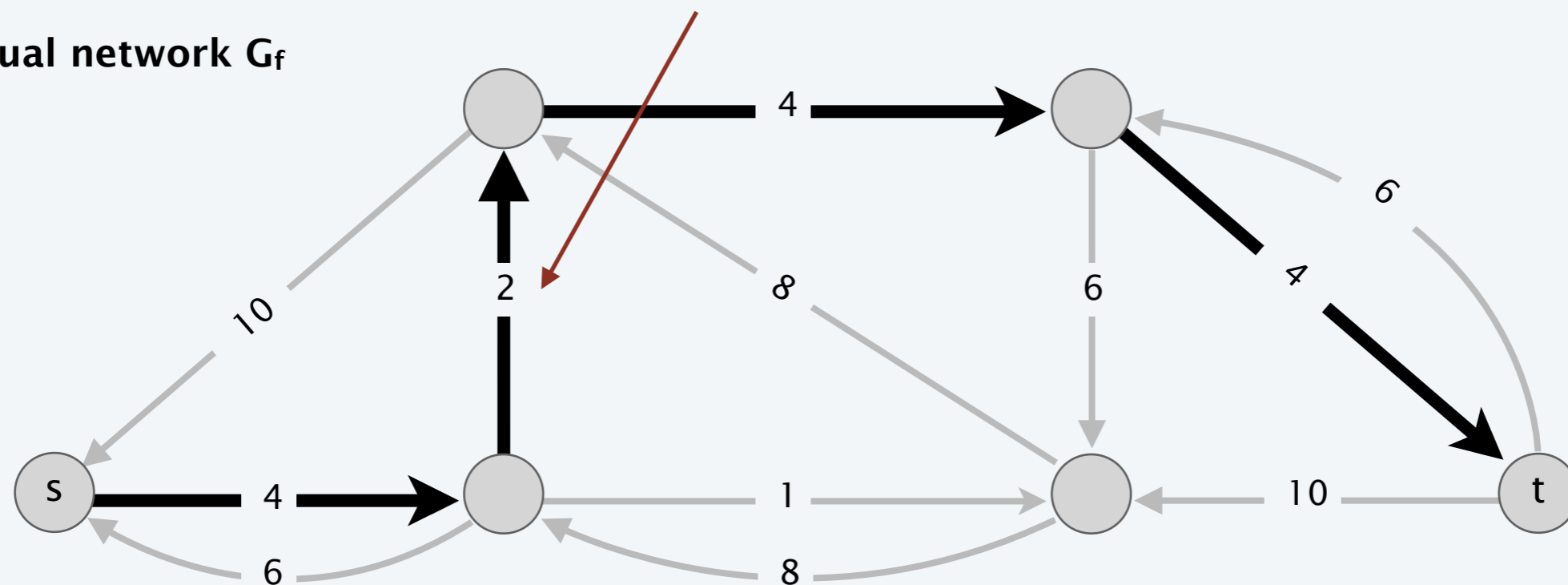
# Ford-Fulkerson algorithm demo

network G and flow f



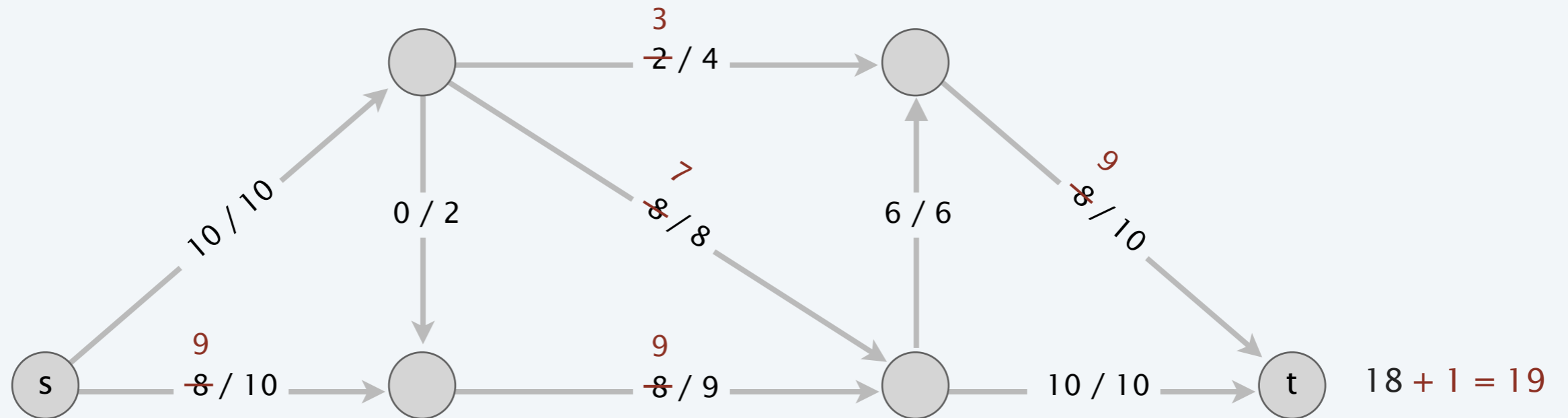
fixes mistake from second augmenting path

residual network  $G_f$

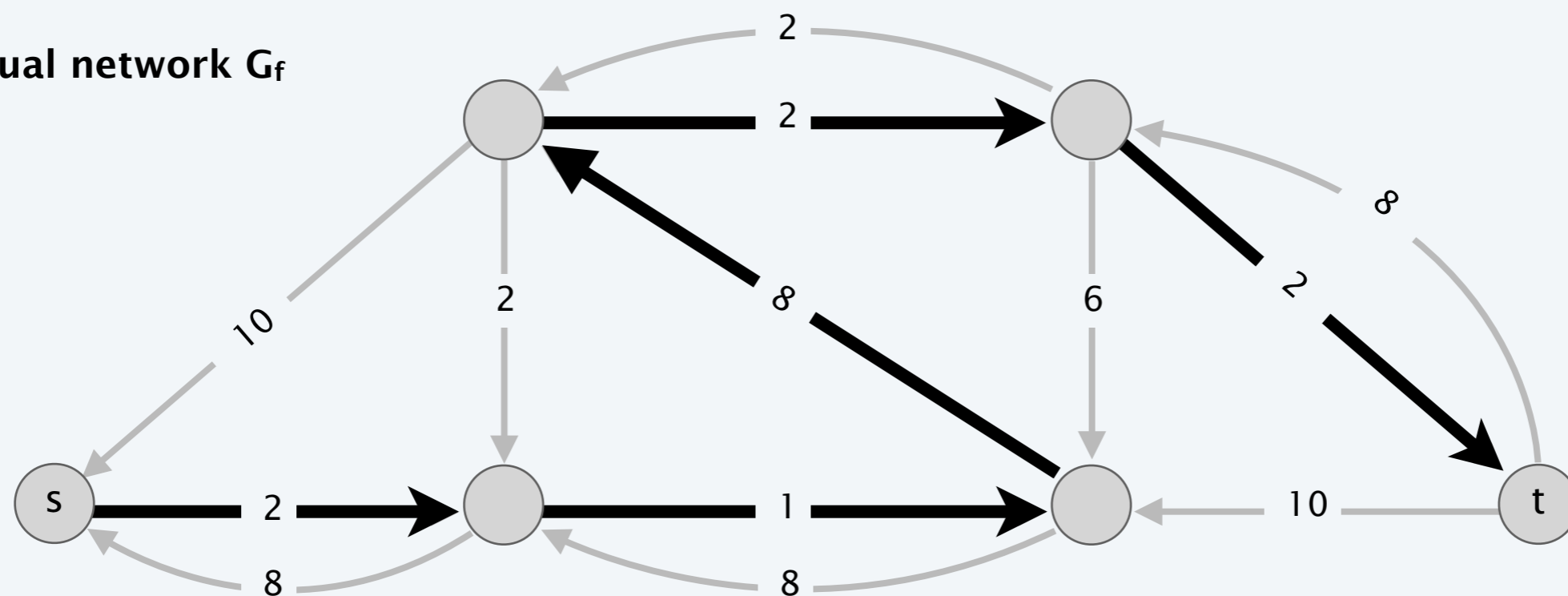


# Ford-Fulkerson algorithm demo

network G and flow f

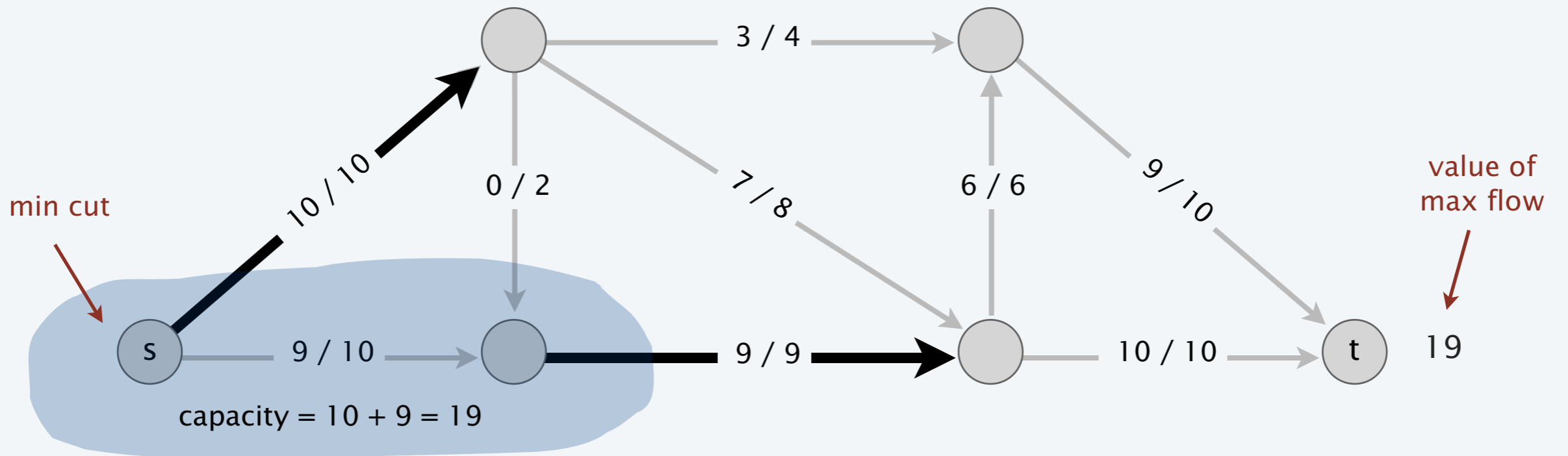


residual network G<sub>f</sub>



# Ford-Fulkerson algorithm demo

network G and flow f



residual network  $G_f$

