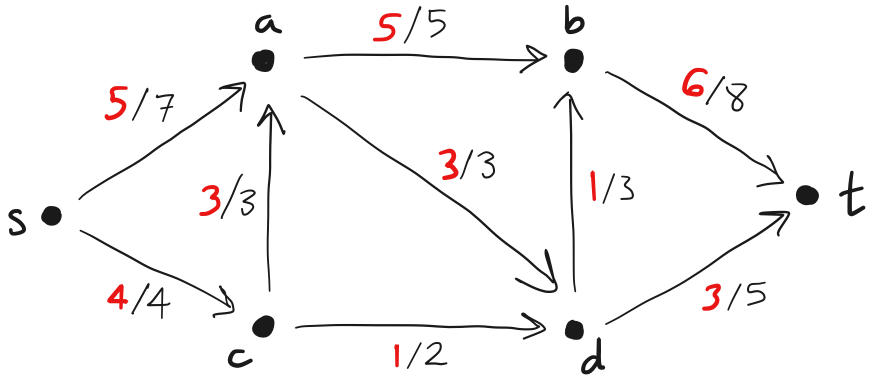
Here is a flow built by the Ford-Fulkerson algorithm. Is this a max flow, or can the algorithm continue for another step?



Algorithm to find a min-capacity cut $(S, \overline{S})$ given a max flow f:

- Initialize $S = \{s\}$
- While $\exists x \in S$ and $y \notin S$ so that either
  - (x, y) is an arc with $c(x, y) - f(x, y) > 0$, **or**
  - (y, x) is an arc with $f(y, x) > 0$,

  add y to x.
- Output $(S, \overline{S})$.