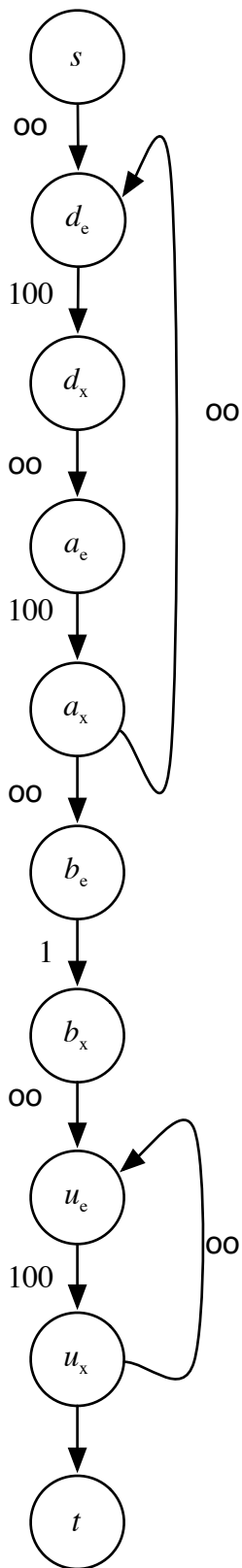(a) Input Program

(b) s-t min cut network