## Homework 5

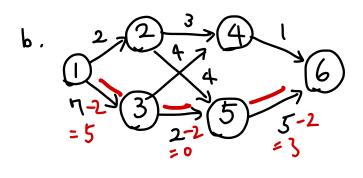
I greedy algorithm can find the shortest time spent in the system.

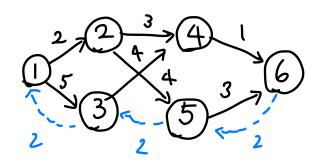
Here is how greedy algorithm works

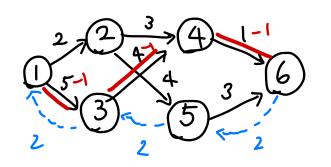
- D sort the jobs in ascending order of duration time
- Dexecute the Jobs in sorted order greedy algorithm doesn't always have optimal solution for every publem. Because it doesn't operate exhaustively on all the data. It can make certain choices too early, preventing them from finding the best overall solution later.

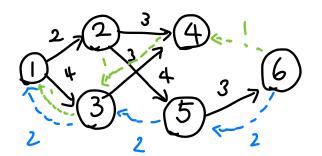
2. a. applying Ford-Fulkerson method

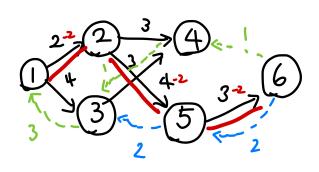
1 is source and 6 is sink

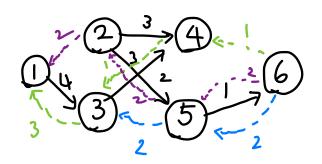




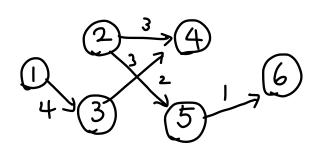








Stop



flow = 5x