

Homework 13

Zhicong Sun

Supervisor: Shuang-Hua Yang

From: Harbin Institute of Technology

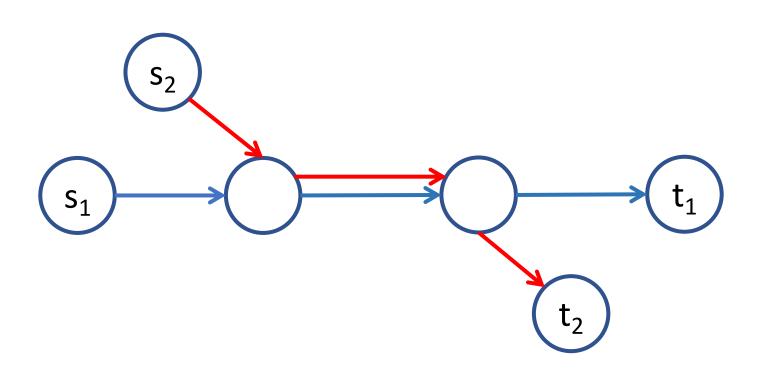
2020.12.17



Exercise 11-1



 Create an example where the optimal solution is obtained by the greedy algorithm



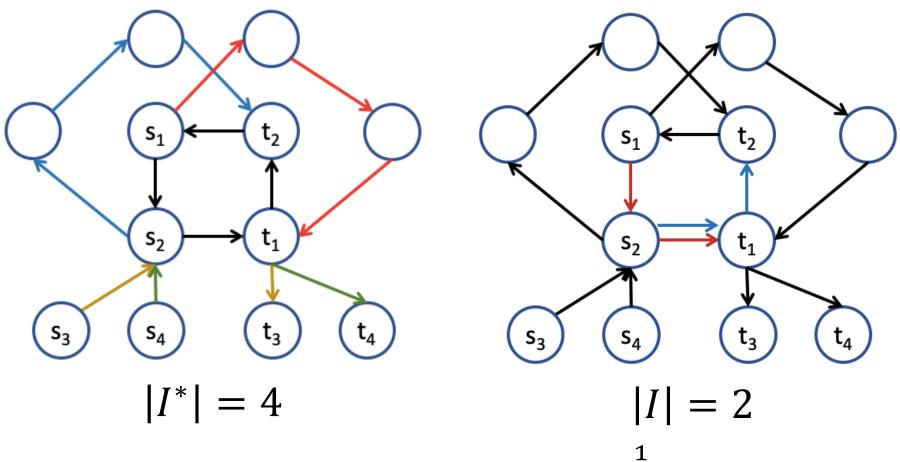
$$|I| = |I^*| = 2$$



Exercise 11-1



■ Create anther example where the greedy algorithm solution |I| is close to $|I^*|/(4m^{\frac{1}{3}}+1)$.



m = 14, $m^{1/3} = 2.4$, $|I^*|/(4m^{\frac{1}{3}} + 1) = 0.4$





Thanks!

Please contact me with email if you have any problem

ZhicongSun
Computer Science and Engineering
12032471@mail.sustech.edu.cn

Github: RadarSun

2020.12.17