MATH 448 D100 ASSIGNMENT #4

Due: Monday, March 19th (in class)

Reading

If you haven't already, please read up to Section 8.2.

For Wednesday, March 7th, Sections 9.1–9.3.

For Monday, March 12th, Sections 9.4–9.5.

For Wednesday, March 14, Section 9.6–9.7.

For Monday, March 19th, Section 10.1–10.2.

Assignment exercises to hand in for Math 448 and 748

Chapter 7, exercises 7.14.

Chapter 8, exercises 8.2, 8.8.

Chapter 9, exercises 9.8, 9.16, 9.18.

Additional problems to hand in for Math 748

Chapter 7, exercise 7.10.

Chapter 9, exercises 9.14 and 9.36.

Math 448 students are also welcome to try these problems.

Presentations

Here is the preliminary schedule of graduate student presentations, along with the papers they will be presenting. Please check that this information is correct. Note that presentations should be accompanied by a set of computer overheads, which will be submitted to the instructor as part of the grading process. Presentations will last approximately 20 minutes each, with questions following the presentation.

Dawei Deng, [GJ99], Monday, April 2nd, 3:30 p.m.

Xiaorui Li, [Tar85], Monday, April 2nd, 4:00 p.m.

Krishna Teja Malladi, [LS08], Wednesday, April 4th, 2:30 p.m.

Xueying Shen, [RW09], Wednesday, April 4th, 3:00 p.m.

References

[GJ99] Donald Goldfarb and Zhiying Jin, *A new scaling algorithm for the minimum cost network flow problem*, Oper. Res. Lett. **25** (1999), no. 5, 205–211.

[LS08] Lu-Wen Liao and Gwo-Ji Sheen, *Parallel machine scheduling with machine availability and eligibility constraints*, European J. Oper. Res. **184** (2008), no. 2, 458–467.

[RW09] Mateo Restrepo and David P. Williamson, *A simple GAP-canceling algorithm for the generalized maximum flow problem*, Math. Program. **118** (2009), no. 1, Ser. A, 47–74.

[Tar85] Éva Tardos, *A strongly polynomial minimum cost circulation algorithm*, Combinatorica **5** (1985), no. 3, 247–255.