

5B5860 INTEGER PROGRAMMING—PRACTICAL ALGORITHMS Spring 2006 Instructor: Anders Forsgren Homework Assignment 2

Exercise 2.1. Solve Exercise I.4.8.11.iii-iv in Integer and Combinatorial Optimization. (Page 112)

Due Tuesday April 25 2006

Exercise 2.2. Solve Exercise I.4.8.12 in *Integer and Combinatorial Optimization*. (Page 112)

Exercise 2.3. Solve Exercise I.4.8.13 in Integer and Combinatorial Optimization. (Page 112)

Exercise 2.4. Solve Exercise I.5.9.11 in Integer and Combinatorial Optimization. (Page 144)

Exercise 2.5. Solve Exercise I.5.9.13 in Integer and Combinatorial Optimization. (Page 144)

Exercise 2.6. Solve Exercise I.5.9.15i in *Integer and Combinatorial Optimization*. (Page 144) You may use the result on \mathcal{NP} -completeness of node cover as stated in Exercise I.5.9.14i in *Integer and Combinatorial Optimization* without proof.

Exercise 2.7. Do you think that $\mathcal{P} = \mathcal{NP}$?

Good luck!