

Concepts and Algorithms of Optimization – Series 5

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Exercise 1

Consider the office assignment problem of the *SofTech Inc* described in Exercise 3 of Series 4.

- (a) Interpret this problem as a maximum weighted perfect matching problem and give an explicit mathematical formulation.
- (b) Model and solve this problem by using AMPL.

Exercise 2

Regard the assignment problem of the consultant agency manager explained in Exercise 2 of Series 4.

- (a) Give a general mathematical formulation of the underlying maximum weighted matching problem.
- (b) Solve the given problem by separately transferring the general model and the data to AMPL.