

Property Demonstration on the Linear Programming Packages with Various Examples

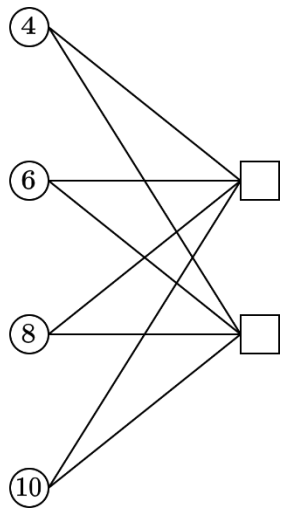
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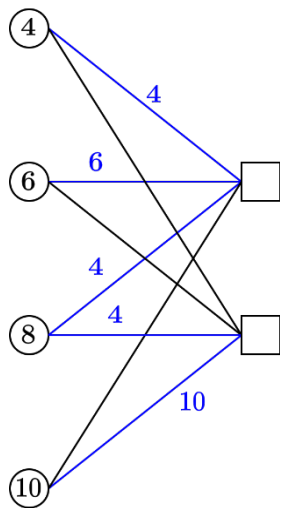
Recent Research Topic: Generative Model

Supervisor: 郑锋

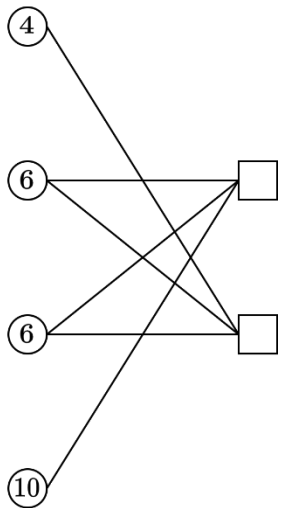
Task 11-1



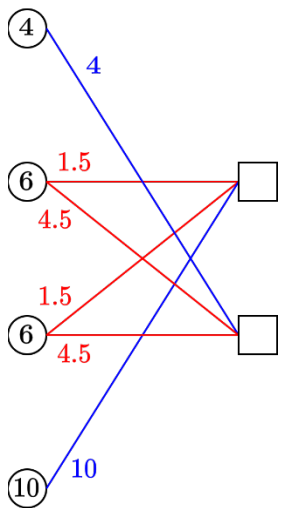
Example 1



w/o cycle
HiGHS



Example 2



w cycle
interior point

[1] Huangfu, Q., & Hall, J. J. (2018). Parallelizing the dual revised simplex method. Mathematical Programming.

[2] Andersen, E. D., & Andersen, K. D. (2000). The MOSEK interior point optimizer for linear programming: an implementation of the homogeneous algorithm. In *High performance optimization* (pp. 197-232). Boston, MA: Springer US.g Computation, 10(1), 119-142.

Package	Algorithm
scipy	HiGHS ^[1]
scipy	interior point ^[2]