MGT 40750 – Quantitative Decision Modeling Spring 2017

Linear Programming

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Optimization

- <u>Main Idea</u>: Finding the _____ way to allocate _____ resources
- Applications
 - Supply chain optimization: used by UPS, FedEx, GE, Schneider, etc.
 - Portfolio optimization: used by numerous Wall Street firms.
 - Airline scheduling: used by all major airlines.
 - Product mix: used by major oil companies, beverage manufacturers, etc.
 - Sales of TV ads: used by all broadcast TV networks such as ABC, CBS, NBC, FOX, CW, etc.
 - Sports scheduling: used by all major professional and college sports leagues.
 - Health care: kidney swaps.
- Recent survey: 85% of Fortune 500 firms use optimization.

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