

* Issue: Seat selling
fleet selection \rightarrow Both trivial!
 \rightarrow No dynamics between them.

* Idea: need something to penalize seat selling?!
(somehow related to fleet selection)

\rightarrow In some cases, the smaller fleet should be able to be chosen over the bigger ones.

\Rightarrow Over-booking

\rightarrow bump up one class (No extra charge)

\rightarrow bump penalty (the price diff.)

If biz seats overflow

\rightarrow refuse boarding

\rightarrow deny penalty

(fixed amount or fixed ratio of the ticket)

Meaning? (making some dynamics between seat revenue and fleet assignment.)

\rightarrow bump penalty vs. fleet operating cost

Objective function

$$\text{Max} \left(\underbrace{\text{Revenue} - \text{Cost}}_{\text{No change!}} - \text{bump penalty} \right) \quad \text{Addition}$$

One problem doing this is

we better drop the weighed sum method

as it doesn't give us meaningful results.