

Example: Berlin airlift

- four quarters of year, cargo to be transported in each:
100, 150, 150, 200 units of cargo, where
1 unit $\hat{=}$ 1 plane carriage unit $\hat{=}$ 14t
- each airplane needs 3 people to operate
- initially 110 planes \rightarrow 330 crew members
- 1 crew member, not operating planes, can train
19 new crew members in 1 quarter
- crew operating in 1 quarter get leave in the next
- 20% get lost one the way back
- Cost: new plane : 200 MU
op. idle crew member: 7 MU
new — " — : 10 MU
resting — " — : 5 MU

- VARIABLES: p_i : # of new planes built in quarter i
($i=1, \dots, 4$) \bar{p}_i : # of idle planes — " —
 m_i : # of new crew members — " —
 \bar{m}_i : # of idle — " —

