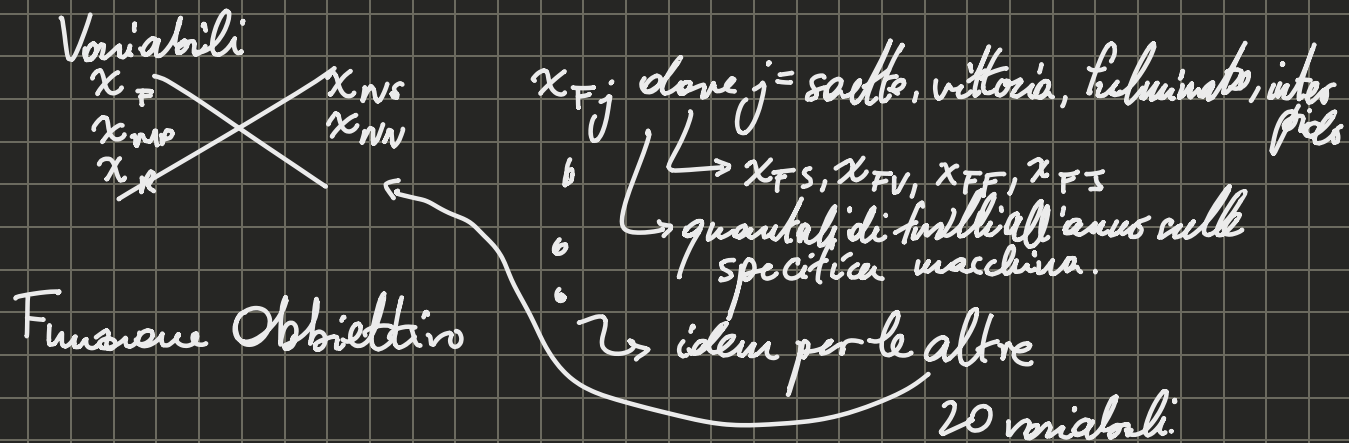


Esercitazione 8 -

Esercizio 5 -

$$16 \cdot 200 = 3200 \text{ h/y}$$



Vincoli

$$x_i \geq 0 \quad \forall x_i$$

Ritmi produttivi

$$\text{Saetta} = \frac{x_{FS}}{29,2} + \frac{x_{RS}}{15,5} \leq 3200 \cdot 0,88$$

x_{FS} e x_{FF} sono

$$\text{Fulminante} = \frac{x_{FF}}{21} + \frac{x_{MPF}}{24,6} + \frac{x_{RF}}{16,9} \leq 3200 \cdot 93$$

$$\text{Intrepido} = \frac{x_{NNI}}{3,4} + \frac{x_{NSI}}{2,5} \leq 3200 \cdot 78$$

$$\text{Vittorie} = \frac{x_{FV}}{12,3} + \frac{x_{MPV}}{30,7} \leq 3200 \cdot 86$$

le quantità di
fucili prodotti
dalle rispettive
macchine, usando
solo x_F significherebbe

$$\sum x_{Fj} = 32200$$

Operazioni FO

$$\hookrightarrow \max \sum_{\text{fond}} \sum_{\text{line}} (x_{\text{prodotto, linea}} \cdot (p - c))$$

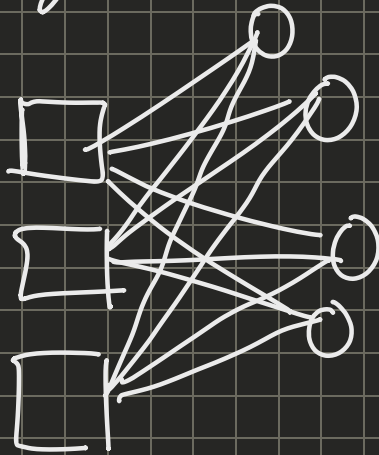
$$\min \sum_{\text{font}} \sum_{\text{linea}} (x_{\text{porta, linea}} \cdot C)$$

Esercizio 3

Variabili

$$x_{11}, x_{12}, x_{13}, x_{14}, x_{21}, x_{22}, x_{23}, x_{24}, x_{31}, x_{32}, x_{33}, x_{34}$$

↳ Funzione mandatis da generatore a città.



Vincoli

$$x_{11} + x_{12} + x_{13} + x_{14} \leq 35 \quad \text{prod I1}$$

$$x_{21} + x_{22} + x_{23} + x_{24} \leq 50 \quad \text{prod I2}$$

$$x_{31} + x_{32} + x_{33} + x_{34} \leq 40 \quad \text{prod I3}$$

$$x_{11} + x_{21} + x_{31} \geq 45$$

$$x_{12} + x_{22} + x_{32} \geq 20$$

$$x_{13} + x_{23} + x_{33} \geq 30$$

$$x_{14} + x_{24} + x_{34} \geq 30$$

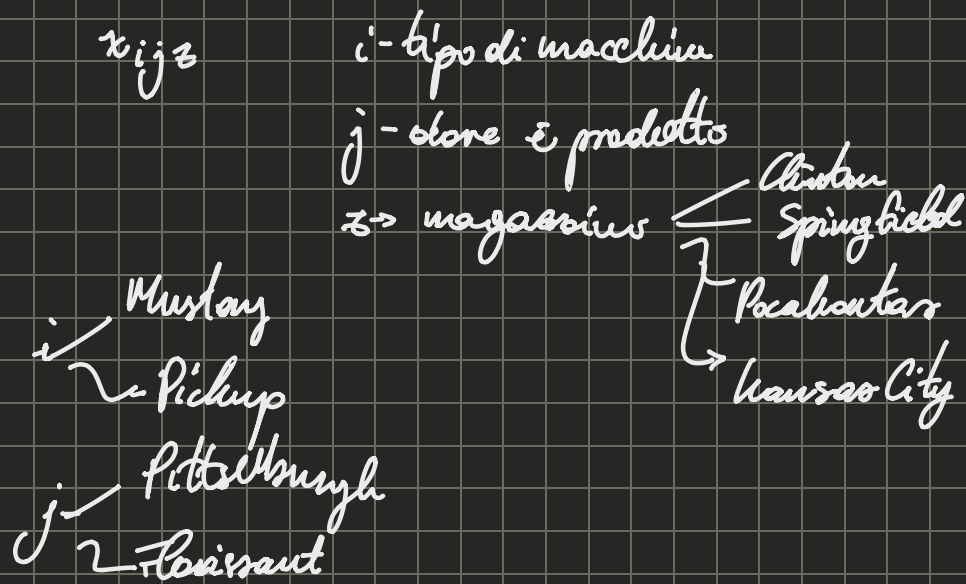
Funzione Obiettivo

$$\min \text{costo} (c_{ij} \cdot x_{ij})$$

Valore mandatis

↳ Costo da impianto i a città j
unità

Esercizio 7



Vincoli:

Demanda

$$x_{PFLP0} + x_{PPIP0} \geq 2000$$

⋮

$$x_{MFLKc} + x_{MPIKc} \geq 10000$$

⋮

$$\sum_i x_{pPz} \leq 60000$$

$$\sum_i x_{mPz} \leq 30000$$

$$\sum_i x_{pFLz} \leq 80000$$

$$\sum_i x_{mFLz} \leq 40000$$

F.O.

$$\min \text{costo totale} \left(\sum_{jz} x_{jz} \cdot c_{jz} \right)$$

\sum_{jz}
 → Carica trasporto
 12 macchine
 (tipo-indipendente)