

Esercizi con soluzione di programmazione lineare

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Un lanificio produce filato di tipo standard e di tipo speciale utilizzando 3 diverse macchine, le cui produzioni *orarie* sono le seguenti:

macchina A: 3 matasse standard e 1 speciale

macchina B: 2 matasse standard e 2 speciali

macchina C: 2 matasse standard e 1 speciale

Il mercato richiede almeno 60 matasse standard e 40 di tipo speciale al giorno. I costi orari delle due macchine sono: 90 euro per la A, 80 euro per B, 60 euro per C.

Scrivere un modello di programmazione lineare per determinare la produzione giornaliera di costo minimo. (Non occorre imporre il vincolo che le ore giornaliere non superino 24)

Soluzione.

Durante un'ora di funzionamento, ciascuna macchina, se attiva, ha una produzione fissa di matasse, indicata prima. Dunque, il problema non riguarda decidere *cosa* produrre, bensì *per quanto tempo* tenere in funzione le tre macchine. Dunque, le variabili di decisione sono x_A, x_B, x_C , pari alle ore di funzionamento delle tre macchine. Considerando che ogni ora di macchina A costa 90 euro, e produce 3 matasse standard e una speciale, avremo dunque che il contributo alla funzione obiettivo sarà $90x_A$, mentre il contributo al soddisfacimento della domanda dei due tipi di matasse sarà rispettivamente $3x_A$ e x_A . Ripetendo il discorso anche per le altre due macchine, otteniamo la formulazione

$$\begin{aligned} \min \quad & 90x_A + 80x_B + 60x_C \\ & 3x_A + 2x_B + 2x_C \geq 60 \\ & x_A + 2x_B + x_C \geq 40 \\ & x_i \geq 0 \end{aligned}$$

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Renato De Leone, Cinzia Lazzari



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Esercizi di programmazione lineare e programmazione lineare intera Renato De Leone, Cinzia Lazzari, 2007

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