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Lecture 1

Lecture questions due Sep 13, 2016 at 19:30 IST

**Recitation****Problem Set 1**

Homework due Sep 13, 2016 at 19:30 IST



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Minimum Resources

(1/1 point)

Suppose we have a constraint that creates a lower bound q_i on the amount of resource i used. The other notation is given next.

- S : Set of products
- R : Set of resources
- r_i : Amount of resource i available
- x_j : Amount of product j for $j \in S$
- a_{ij} : Amount of resource i used to make 1 unit of product j
- p_j : Profit of one unit of j

Which of the following represents the constraint?

☐ $\sum_{j \in S} a_{ij} x_j \geq r_i$

☐ $\sum_{j \in R} a_{ij} x_j \geq q_i$

☐ $\sum_{j \in S} a_{ij} x_j \leq q_i$

☐ $\sum_{j \in S} a_{ij} x_j \leq r_i$

☒ $\sum_{j \in S} a_{ij} x_j \geq q_i$ ✓

EXPLANATION

Solution

The correct answer is: $\sum_{j \in S} a_{ij} x_j \geq q_i$

A lower bound requires that the amount of Resource i that is used is at least q_i .

You have used 1 of 1 submissions

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