

## Problem

Write a program to solve an LPP in graphical method. Also display the graph of the feasible region.

**Example:** Minimize  $20x + 10y$   
Subject to  $1x + 2y \leq 40$   
 $3x + 1y \geq 30$   
 $4x + 3y \geq 60$   
 $x, y \geq 0$

**Input:**

Minimize

20 10

1 2 40 leq

3 1 30 geq

4 3 60 geq

**Output:**

Bounded feasible region

Extreme point: (40,0) Value: 800

Extreme point: (15,0) Value: 300

Extreme point: (6,12) Value: 240

Extreme point: (4,18) Value: 260

Unique minimum solution

Minimum Solution:  $x = 6$ ,  $y = 12$ , value =240