```
from scipy.optimize import linprog
#Min z = x1-3x2+2x3
#subject to
#3x1-x2+3x3<=7
#-2x1+4x2<=12
#-4x1+3x2+8x3<=10
#x1,x2,x3>=0
obj = [1, -3, 2]
lhs_ineq = [[ 3, -1, 3], # Red constraint left side
... [-2, 4, 0], # Blue constraint left side
... [ -4, 3, 8]] # Yellow constraint left side
rhs_ineq = [7, # Red constraint right side
... 12, # Blue constraint right side
... 10] # Yellow constraint right side
bnd = [(0, float("inf")), # Bounds of x
... (0, float("inf")),
... (0, float("inf"))] # Bounds of y
opt = linprog(c=obj, A_ub=lhs_ineq, b_ub=rhs_ineq,
... bounds=bnd,
... method="revised simplex")
opt
          con: array([], dtype=float64)
          fun: -11.0
      message: 'Optimization terminated successfully.'
          nit: 2
        slack: array([ 0., 0., 11.])
       status: 0
      success: True
            x: array([4., 5., 0.])
```

✓ 0s completed at 12:01 PM

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