```
In [1]: #Problem 3-2
 using JuMP, Cbc, NamedArrays
 computers = [:Pear, :Apricot, :Mango]
 labor = Dict(zip(computers,[1,2,1.8]))
 chips = Dict(zip(computers,[2,5,6]))
 sell = Dict(zip(computers, [400,900,1000]))
 production = Dict(zip(computers, [500, 400, 300]))
 M = Dict(zip(computers,[2500, 1500, 1200]))
 m = Model()
 @variable(m, x[computers] >= 0)
 @variable(m, y[computers] >=0)
 @objective(m, Max, sum(sell[i]*x[i] for i in computers))
 @constraint(m, sum(chips[i] * x[i] for i in computers ) <= 3000) #chip constraint</pre>
 @constraint(m, sum(labor[i] * x[i] for i in computers) <= 1200) #labor constraint</pre>
 \emptysetconstraint(m, prod[i in computers], x[i] >= production[i]*y[i])
 #@constraint(m, rhs[i in computers], x[i] >= 1000*v[i])
 #@constraint(m, bin[i in computers], y[i] == 0)
 @constraint(m, bound[i in computers], x[i] <= M[i]*y[i])</pre>
 @constraint(m, nonzero[i in computers], x[i] >= 0)
 set optimizer(m, Cbc.Optimizer)
 optimize!(m)
Presolve 2 (-9) rows, 3 (-3) columns and 6 (-15) elements
0 Obj -0 Dual inf 2700 (3)
3 Obj 550000
Optimal - objective value 550000
After Postsolve, objective 550000, infeasibilities - dual 0 (0), primal 0 (0)
Optimal objective 550000 - 3 iterations time 0.002, Presolve 0.00
```