```
In [2]: from gamspy import (Container, Variable, Equation, Model, Set, Parameter, Su
        import numpy as np
In [6]: b = Container()
        #SETS
        t = Set(b, 't', records=['Pilsner', 'Doublebock', 'Stout'])
        r = Set(b, 'r', records=['Hops', 'Malt', 'Barley'])
        o = Parameter(b, 'o', [t], records=np.array([60, 40, 80]))
        u = Parameter(b, 'u', [r], records=np.array([12, 9, 16]))
        p = Parameter(b, 'p', [t, r], records=np.array([[2, 3, 2], [2, 2, 1], [2, 1,
        #VARIABLES
        x = Variable(b, "x", "positive", domain=[t],description="beer")
        #EOUATIONS
        resource con = Equation(b, 'resource con', domain=[r],description="resource
        resource con[r]=Sum(t, p[t, r]*x[t]) \leftarrow u[r]
        ff = Model(b.
            name='ff',
            equations=b.getEquations(),
            problem=Problem.LP,
            sense=Sense.MAX,
            objective=Sum(t,o[t]*x[t]))
In [7]: | ff.solve(options = Options(equation listing limit=100))
        print("Objective Function Value: ",round(ff.objective value,4),"\n")
        print("x: ", x.toList())
        print("status: ", ff.status)
        print("solver status: ", ff.solve status)
        print(ff.getEquationListing())
       Objective Function Value: 440.0
       x: [('Pilsner', 0.0), ('Doublebock', 1.00000000000000), ('Stout', 5.0)]
       status: ModelStatus.OptimalGlobal
       solver status: SolveStatus.NormalCompletion
       resource con(Hops).. 2*x(Pilsner) + 2*x(Doublebock) + 2*x(Stout) =L= 12;
       (LHS = 0)
       resource con(Malt).. 3*x(Pilsner) + 2*x(Doublebock) + x(Stout) = L = 9; (LHS
       resource con(Barley).. 2*x(Pilsner) + x(Doublebock) + 3*x(Stout) = L= 16;
       (LHS = 0)
       ff objective.. 60*x(Pilsner) + 40*x(Doublebock) + 80*x(Stout) - ff objectiv
       e variable =E=0; (LHS =0)
```