In [19]:
```
from gamspy import (Container, Variable, Equation, Model)
```

In [20]:
```
m = Container()

#VARIABLES
x1 = Variable(m, name="x1", type="positive")
x2 = Variable(m, name="x2", type="positive")
x3 = Variable(m, name="x3", type="positive")
obj = 3*x1 + 4*x2 - 20*x3

#EQUATIONS
eq1 = Equation(m, name="eq1", type="regular")
eq1[:]= x1 - 4*x2 + 2*x3 <= 10
eq2 = Equation(m, name="eq2", type="regular")
eq2[:]= 3*x1 + 6*x3 == 12
eq3 = Equation(m, name="eq3", type="regular")
eq3[:]= 9*x2 >= 3 + 5*x1

simple = Model(m,
    name="simple",
    equations=m.getEquations(),
    problem="lp",
    sense="min",
    objective=obj
)
```

In [21]:
```
simple.solve()
print("Objective Function Value: ",round(simple._objective_value,4),"\n")
print("x1: ", round(x1.toValue(), 4))
print("x2: ", round(x2.toValue(), 4))
print("x3: ", round(x3.toValue(), 4))
```

```
Objective Function Value:  -38.6667

x1:  0.0
x2:  0.3333
x3:  2.0
```