



Code

Cell Toolbar: None

```
In [3]: using JuMP
m = Model()
@defVar(m, 0 <= x <= 40)
@defVar(m, y <= 0)
@defVar(m, z <= 0)
@setObjective(m, Max, x + y + z)

@addConstraint(m, const1, -x + y + z <= 20)
@addConstraint(m, const2, x + 3y + z <= 30)

solve(m)
println("Optimal Solutions:")
println("x = ", getValue(x))
println("y = ", getValue(y))
println("z = ", getValue(z))
```

```
Optimal Solutions:
x = 40.0
y = -3.3333333333333335
z = 0.0
```

In []: