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In [9]:  #Ayush Sharma 209303312
         #Python code to solve some algebraic relations using constraintsatisfaction
         #solving cosntraint x+y>= 15 when x can be from [1,2,3,4,5] and y can be from [1,2,

         from constraint import *


         problem=Problem()
         problem.addVariable("x",[1,2,3,4,5,6,7])
         problem.addVariable("y",[1,2,3,4,5,6,7,8,9,10,11,12])

         def my_constraint(x,y):
             if x+y>15:
                 return True


         problem.addConstraint(my_constraint,['x','y'])
         s=problem.getSolutions()
         for i in s:
             print(i)
         {'x': 7, 'y': 12}
         {'x': 7, 'y': 11}
         {'x': 7, 'y': 10}
         {'x': 7, 'y': 9}
         {'x': 6, 'y': 12}
         {'x': 6, 'y': 11}
         {'x': 6, 'y': 10}
         {'x': 5, 'y': 12}
         {'x': 5, 'y': 11}
         {'x': 4, 'y': 12}

In [ ]:
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