

```
In [1]: from pulp import *
```

```
In [13]: prob = LpProblem("Simple LP problem",LpMaximize)
x12= LpVariable("x12",lowBound=0,upBound=6)
x13= LpVariable("x13",lowBound=0,upBound=4)
x24= LpVariable("x24",lowBound=0,upBound=3)
x25= LpVariable("x25",lowBound=0,upBound=2)
x34= LpVariable("x34",lowBound=0,upBound=2)
x35= LpVariable("x35",lowBound=0,upBound=5)
x46= LpVariable("x46",lowBound=0,upBound=6)
x56= LpVariable("x56",lowBound=0,upBound=4)
x61= LpVariable("x61",lowBound=0)
```

C:\Users\acer\anaconda3\Lib\site-packages\pulp\pulp.py:1316: UserWarning: Spaces are not permitted in the name. Converted to '_'
 warnings.warn("Spaces are not permitted in the name. Converted to '_'")

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In [14]: prob+=x61
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In [15]: prob+=x61 - x12 - x13 == 0
prob+=x12 - x24 - x25 == 0
prob+=x13 - x34 - x35 ==0
prob+=x24 + x34 - x46 == 0
prob+=x25 + x35 - x56 == 0
prob+=x46 + x56 - x61 == 0
```

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In [16]: prob.solve()
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```
Out[16]: 1
```

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In [17]: for v in prob.variables():
          print(v.name,"m",v.varValue)
```

```
x12 m 5.0
x13 m 4.0
x24 m 3.0
x25 m 2.0
x34 m 2.0
x35 m 2.0
x46 m 5.0
x56 m 4.0
x61 m 9.0
```

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In [18]: print("The optimal value is :",value(prob.objective))
```

```
The optimal value is : 9.0
```

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In [ ]:
```

