In [1]:
```
# Water jug problem

def pour(jug1, jug2):
    max1, max2, fill = 5, 7, 4  #Change maximum capacity and final capacity
    print("%d\t%d" % (jug1, jug2))
    if jug2 is fill:
        return
    elif jug2 is max2:
        pour(0, jug1)
    elif jug1 != 0 and jug2 is 0:
        pour(0, jug1)
    elif jug1 is fill:
        pour(jug1, 0)
    elif jug1 < max1:
        pour(max1, jug2)
    elif jug1 < (max2-jug2):
        pour(0, (jug1+jug2))
    else:
        pour(jug1-(max2-jug2), (max2-jug2)+jug2)

print("JUG1\tJUG2")
pour(5, 3)
```

```
JUG1    JUG2
5       3
1       7
0       1
5       1
0       6
5       6
4       7
0       4
```

In [ ]:
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