Code:

```
from collections import defaultdict
jug1, jug2, aim = 4, 3, 2
visited = defaultdict(lambda: False)
def waterJugSolver(amt1, amt2):
    if (amt1 == aim and amt2 == 0) or (amt2 == aim and amt1 == 0):
        print(amt1, amt2)
        return True
    if visited[(amt1, amt2)] == False:
        print(amt1, amt2)
        visited[(amt1, amt2)] = True
        return (waterJugSolver(0, amt2) or
                waterJugSolver(amt1, 0) or
                waterJugSolver(jug1, amt2) or
                waterJugSolver(amt1, jug2) or
                waterJugSolver(amt1 + min(amt2, (jug1 - amt1)),
                               amt2 - min(amt2, (jug1 - amt1))) or
                waterJugSolver(amt1 - min(amt1, (jug2 - amt2)),
                               amt2 + min(amt1, (jug2 - amt2))))
    else:
        return False
print("Steps: ")
waterJugSolver(0, 0)
```

Output: