

```

def water_jug(jug1, jug2, target):
    a, b = 0, 0    # start with both jugs empty
    print("Start:", a, b)

    while True:
        if a == target or b == target:
            print("Goal reached:", a, b)
            break

        elif a == 0:    # if Jug1 empty → fill it
            a = jug1

        elif b == jug2: # if Jug2 full → empty it
            b = 0

        else:           # pour Jug1 → Jug2
            pour = min(a, jug2 - b)
            a -= pour
            b += pour

        print(a, b)

# Example usage
water_jug(4, 3, 2)    # Jug1=4L, Jug2=3L, Target=2L
|

```

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32

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>>> ===== RESTART =====

>>>

('Start:', 0, 0)

(4, 0)

(1, 3)

(1, 0)

(0, 1)

(4, 1)

(2, 3)

('Goal reached:', 2, 3)

>>> |