main.py

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```python
from collections import deque

def water_jug(x, y, target):
    visited = set()
    q = deque([(0, 0)])

    while q:
        a, b = q.popleft()
        if (a, b) in visited:
            continue
        visited.add((a, b))
        print(a, b)

        if a == target or b == target:
            print("Reached target!")
            return


        q.extend([
            (x, b),
            (a, y),
            (0, b),
            (a, 0),
            (a - min(a, y-b), b + min(a, y-b)),
            (a + min(b, x-a), b - min(b, x-a))
        ])
```

Output

=== Code Execution Successful ===