6. Vaccum cleaner problem

**Code**:

def vacuum\_cleaner(room, pos):

steps = []

while "Dirty" in room.values():

if room[pos] == "Dirty":

steps.append(f"Clean {pos}")

room[pos] = "Clean"

else:

# Move to the other room

if pos == "Left":

steps.append("Move Right")

pos = "Right"

else:

steps.append("Move Left")

pos = "Left"

return steps

# Example rooms: both start dirty

room = {"Left": "Dirty", "Right": "Dirty"}

start\_pos = "Left"

steps = vacuum\_cleaner(room, start\_pos)

print("Steps taken by Vacuum Cleaner:")

for s in steps:

print(s)

**Output**:

