6. Write the python program for Vacuum Cleaner Problem.

rooms = {'A': 'dirty', 'B': 'dirty', 'C': 'clean'}

loc = 'A'

total = len(rooms)

while 'dirty' in rooms.values():

if rooms[loc] == 'dirty':

rooms[loc] = 'clean'

cleaned = list(rooms.values()).count('clean')

print(f"Cleaned {loc} | {cleaned/total\*100:.0f}% clean")

# move to next room

loc = chr(((ord(loc)-65+1) % total)+65)

print("All rooms clean!")

