VACCUM CLEANER FOR 2 ROOMS

```
def vacuum_world():
   state = {
      'A': int(input("Enter state of A (0 for clean, 1 for dirty): ")),
      'B': int(input("Enter state of B (0 for clean, 1 for dirty): "))
   }
   location = input("Enter location (A or B): ").strip().upper()
cost = 0     if location == 'A':        if state['A'] == 1:
print("Cleaned A.")           state['A'] = 0           cost += 1
else:
          print("A is clean")
if state['B'] == 1:
          print("Moving vacuum right")
          cost        +=        1
print("Cleaned           B.")
state['B'] = 0       else:
          print("Moving vacuum right")
elif location == 'B':       if state['B']
== 1:           print("Cleaned B.")
state['B'] = 0           cost += 1
else:
          print("B is clean")
if state['A'] == 1:
print("Moving vacuum
left")           cost += 1
print("Cleaned A.")
state['A'] = 0       else:
          print("Moving vacuum left")
print(f"Cost: {cost}")     print(state)


vacuum_world()
```

OUTPUT

```
Enter state of A (0 for clean, 1 for dirty): 1
Enter state of B (0 for clean, 1 for dirty): 1
Enter location (A or B): a
Cleaned A.
Moving vacuum right
Cleaned B.
Cost: 2
{'A': 0, 'B': 0}
```