Vacuum cleaner powhlen ("confrance of dealer") ay_innit_(ay) - (a most book) man - vier mas eye : 100 000 dely, state lives, favore wait wood out remained " to vacuum por = infrut ('Enter A 08 B") = 100/100/1 room_A: input ("Enks dear or dury") and work and more reft () & who is I have be improved in the of the y (self arate (vacuum. pus): : 'B') self star (vacuum-pro)== ("Acos) respectives dy more right) { a) (any state (vacuum pos) = : A)

seep: atate (vacuum pos) = : B: (and to be seep in the def duck () { if (seef stark (vacuum-pos) = = 'A') (busch) some in in in it is a stark (vacuum-pos) = = clinty) (vacuum to a stark (vacuum-pos) = clean) in it is a stark (vacuum-pos) = clean) in it is a stark (vacuum-pos) = clean) (board): else if (acy state (vacuum hos): (B!) ef (self. atak (room. B) : during) day dan (room. B): "clean 900 - 20t - 3 1 is (dels state (vacuum. post:: 'A')
is (dels state (room. A):: "duity") ay main () du du CK()

move.right() elk if (self. state (vacuum. por):: 'B')

of (self. state (vacuum. por):: 'B')

suck () elxebuck() move. left 1) cere in (room. of:: "dean" As soom. B:: "clean") break

class vacuum cleans . ीर्ट रहेर हैं। def-truit- (self). acy. state: § "vacuum pos input ("Enter the initial position of the vacuum cleaner (DOXB): "). upper (), "room-A": [newt("Is Room A duity 108 clean?"). Cour() " room-B": input ("Is Room B ducty ror clean?"). Cover() todiction show the ou show state (seef):

frunt (f baum Position: Early at oute, l'vacquem, pos)}, Room A: Sacy. state ('room-A')?

Room B: Sacy. state ('room-B')?

dy-us clean (suf):

return delf. state (room-A)=="elecun" and del move-right (self): ig self state ("vacuum pos"):="A": Onur municipal dell state ("vacuum.pus") = = "B".

prunt ("Moving to Room B") dy move-left (all): uj dey state fracum. pusto = = 1000. self. state ("vacuum-post) = "A" frank ("moving to Room A")

auch (suy): all state ("vacuum. pos") = = "A";

if del atale ("room-A") = "clean"

self. atale ("room-A") = "clean" fruit ("cleaning room B")

defrun (sey): while not delf. us-clean (): self. show - stare() if acy atate ("vacuum-nos")== "A" in a esp. state ("noom-9")=="duity": deep auch () deg. move-right() elil dey store ("vacum-pros")== "B" in acy state ("800m-B") = "alunty dey. auch () A-moss ? such such s Mote gues aceg. mour-legt() fruit (Both rooms are clean now ") scly. dhow - state () Vacuum: Vacuum Cleaner () vacuum. run () author : Enter inetial position of the vacuum cleaner (AOVB): A Is Goom A durity or clean? clean Is boom B dury or clean? auty Vacuum wition: A, Room A: clean, Room B: dury moving to Room B Vacuum Rosition: B Room A: clean, Room B: dury Cleaning Room B both rooms are clean now! Jacuum position: B, Room A: clean. Room B: clean a mous pauline

authul for four cooms:
steh 1
Vaceum is in room A, Room state: clean
n. n'on: move about
moved down to 1700 mil
Room states . S'A'; 'clean', B': Clean, C: burty,"
, D, - Krapa }
arch a
vacuum is in room C, Room State: Rurty
perion: duck
suckeng dut in room c
prom deater: {'A: 'clean', 'B': 'clean', 'C: 'clean',
'D': 'Qurly'}
Step 3:
vacuum is in room Ci Room state: Clean
Action: move right
moved right to soom o
Room Ataks: & A': 'Clean', 'B': 'Clean, 'C': 'clean'
'o': 'Quiry'}
Step 4:
vacuum is in room D, Room state: Dirty
Action: Buck
1 Ant in room ()
moom draves: & A': 'clean', (B': 'clean', 'C': 'clean',
biclean's
acy. room: { acy.room: { Acy.room: { Acy.room: C'? A: S'right: B'. down: C'?
'A': 'Clean', G': S'eyt': 'A' down': 'D'?',
'B': 'Clean', 'C': { 'wh': A'; right! 'O'},
'C': 'Quay', 'p:: & 'up': 'B', 'left: "c'}
'D': 'Duriy'

```
Enter the initial position of the vacuum cleaner (A or B): A
Is Room A dirty or clean? dirty
Is Room B dirty or clean? dirty
Vacuum Position: A, Room A: dirty, Room B: dirty
Cleaning Room A
Vacuum Position: A, Room A: clean, Room B: dirty
Moving to Room B
Vacuum Position: B, Room A: clean, Room B: dirty
Cleaning Room B
Both rooms are clean now!
Vacuum Position: B, Room A: clean, Room B: clean
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