AI LAB

DATE

Vacuum cleanex

Problem - To get the set of places, cleaned The floor is represented as a matrix with I' and o' as intries supresenting distry and clean places. The goal is to get for cleaned ic have all the values in the floor matrix as O.

Algorithm
Input: A MXN grid Eg: 1607=[(1,0,0)
cly clean (floot)
[0,1,0]

Output: trans matrix after each stage of cleaning.

clias (floor)

70 W = les (floor) # row

col = les (floorlo) # column

i=0 i=0

for i in grange (now):

if (i1.2 = 0) # chick where row

is even or odd for
purpose of transvering

while j < cal:

if (floor[i][j] = =1) # dirty

floor[i][j] = 0 # clear

j=j+1

print excel

ito travere from right to lift

;= col-1

while j > 0

if (Hoor [i][i] == 1): (if dirty)

Hoor [i][j] == 0 (then chan)

j=j-1

ay print (Hoor, now, col, count)

print Hoor