```
cost = 0
def helper(status_A, status_B, curr_loc) :
  global cost
  if (status_A == 0 and status_B == 0) :
    print("Goal reached")
    return

  if (curr_loc == 'A') :
    if (status_A == 1) :
      print("Room A is dirty, suck operation done")
      cost = cost + 1
      print(f"cost is {cost}")
      # print("Moving right")
      status_A = int(input("Enter the current status of A : "))
      if not status_B :
        status_B = int(input("Enter the current status of B : "))
      if (status_A == 1) :
        helper(status_A, status_B, 'A')
      else :
        print("Moving right")
        helper(0, status_B, 'B')
    else :
      print("Room A is already clean")
      print("Moving right")
      helper(0, status_B, 'B')

  if (curr_loc == 'B') :
    if (status_B == 1) :
      print("Room B is dirty, suck operation done")
      cost = cost + 1
```

```
    print(f"cost is {cost}")
    # print("Moving left")
    status_B = int(input("Enter the current status of B : "))
    if not status_A :
      status_A = int(input("Enter the current status of A : "))
    if (status_B == 1) :
      helper(status_A, status_B, 'B')
    else :
      print("Moving left")
      helper(status_A, 0, 'A')
  else :
    print("Room B is already clean")
    print("Moving left")
    helper(status_A, 0, 'A')



status_A = int(input("Enter the current status of A : "))
status_B = int(input("Enter the current status of B : "))
curr_loc = input("Enter the current location of the cleaner : ")

helper(status_A, status_B, curr_loc)
```

Output :

```
Room A is dirty, suck operation done
cost is 1
Moving right
Room B is dirty, suck operation done
cost is 2
Moving left
Goal reached
```