

# **CHESS PIECE AUTOMATOR**

## **OUTPUT SUMMARY :**

### **FOR QUEEN**

- STARTING WITH INITIAL CIRCUIT
- SETTING DEFAULT POSITION FOR QUEEN
- MOVING QUEEN TO (7,4)

The output values and changes in the simulation are shown as a summary below.

Setting the queen to the default position and moving it to 7,4 will give direction output for 7 steps to the actuators and then save the position and stabilize at no movement outputs.

# CHess BOARD AUTOMATER CHIP FOR QUEEN AND 2 ROOKS

INITIALLY WHEN  
CLOCK IS  
ENABLED AT 2Hz

S(PIECE CODE) 0 0

Xf(FINAL X COORDINATE) 0 0 0  
Yf(FINAL Y COORDINATE) 0 0 0

Queen is selected  
as default S = 00

MAIN CLOCK  
Move

Either set  
desired  
position by  
Set Panel  
or Default  
position by  
Set Default

Set\_X 0 0 0  
Set\_Y 0 0 0  
Set  
Set Default

CURRENT POSITION (X,Y)

Current position is  
0,0 as default is  
not set

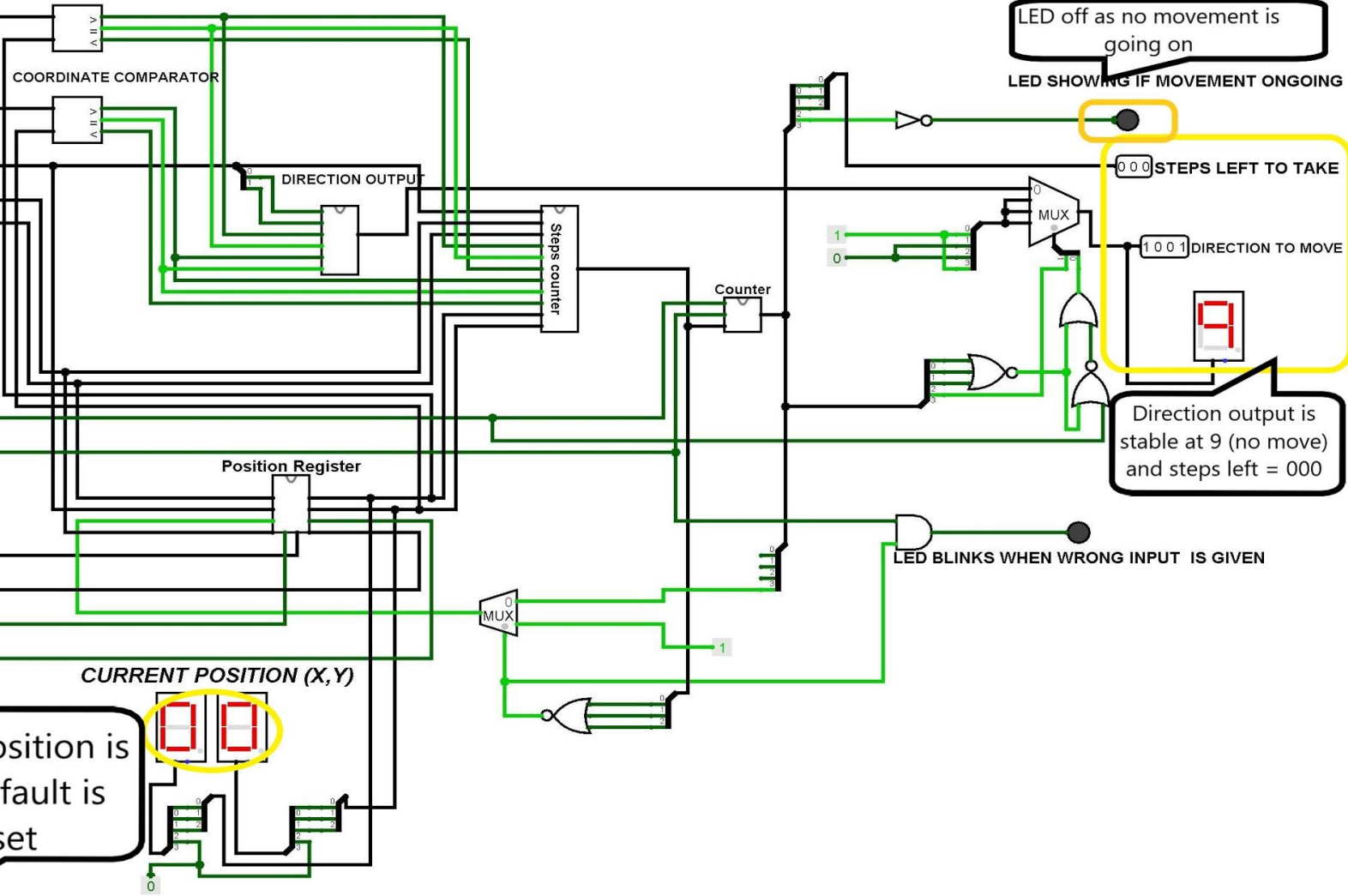
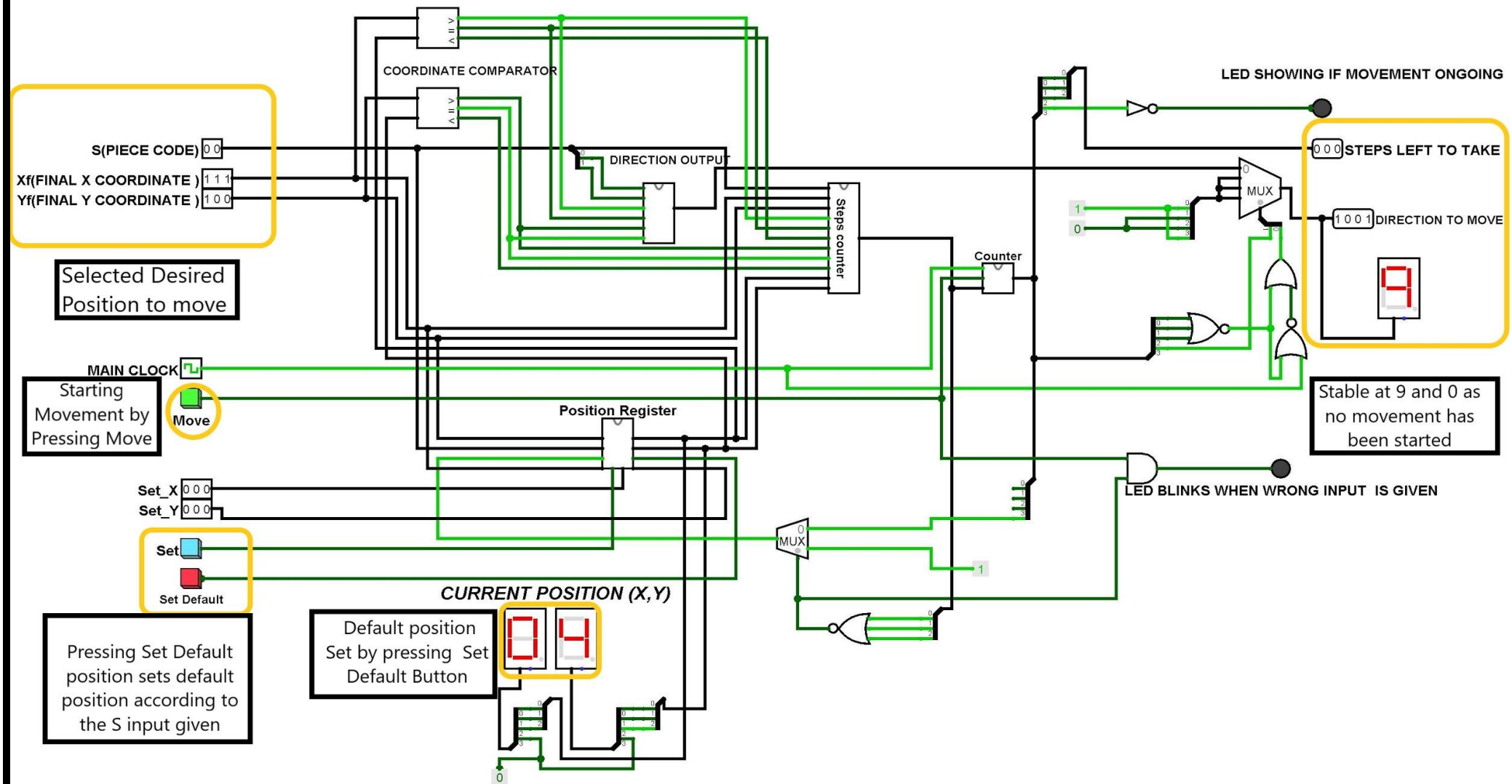


FIG.1.1 INITIAL WHEN STARTED

# CHES BOARD AUTOMATER CHIP FOR QUEEN AND 2 ROOKS



**FIG 1.2 JUST BEFORE STARTING THE MOVEMENT**

# CHess BOARD AUTOMATER CHIP FOR QUEEN AND 2 ROOKS

When Move Button  
is pushed

LED lights up to  
show movement  
has been started  
LED SHOWING IF MOVEMENT ONGOING

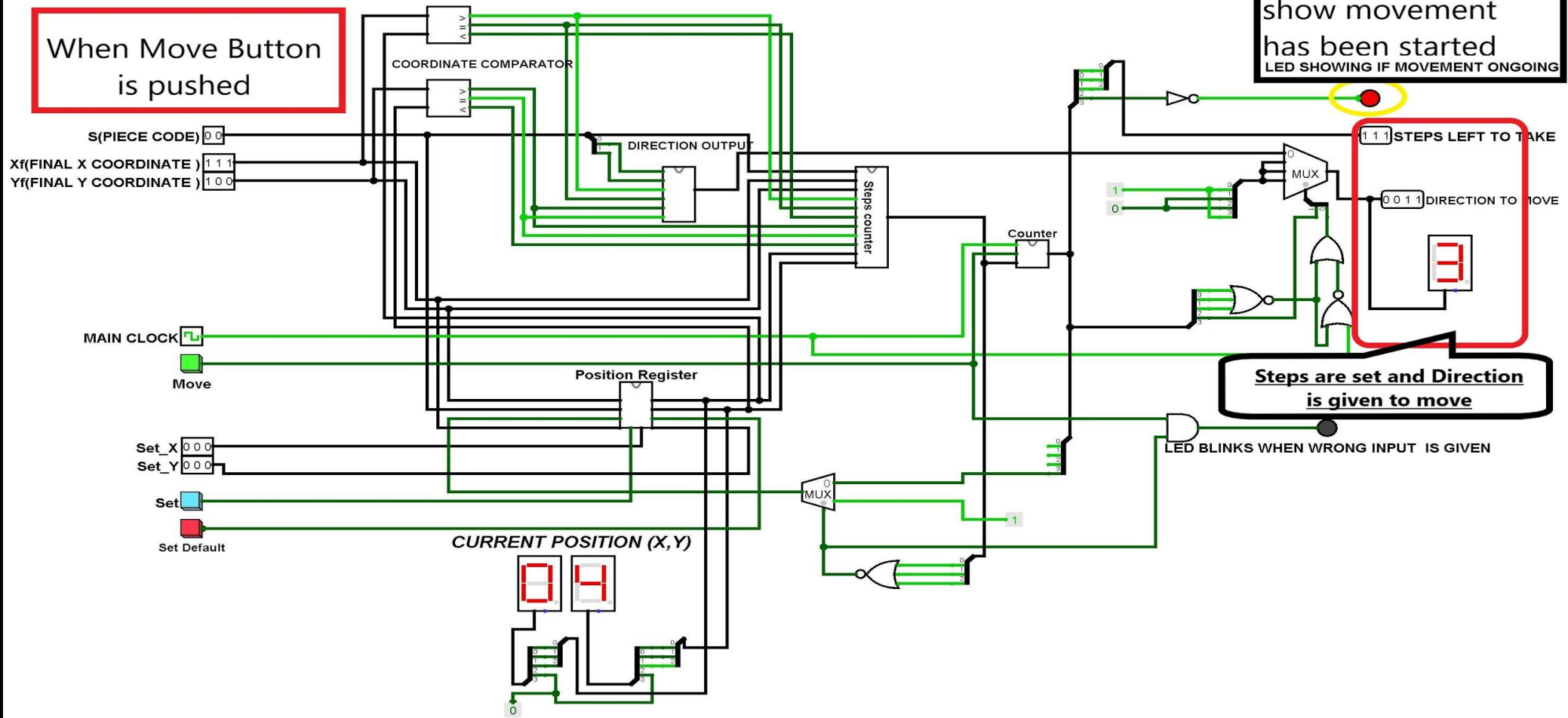


FIG 1.3 JUST AFTER STARTING THE MOVEMENT

# CHES BOARD AUTOMATER CHIP FOR QUEEN AND 2 ROOKS

DURING THE  
MOVEMENT OF THE  
PIECE ON EACH STEP

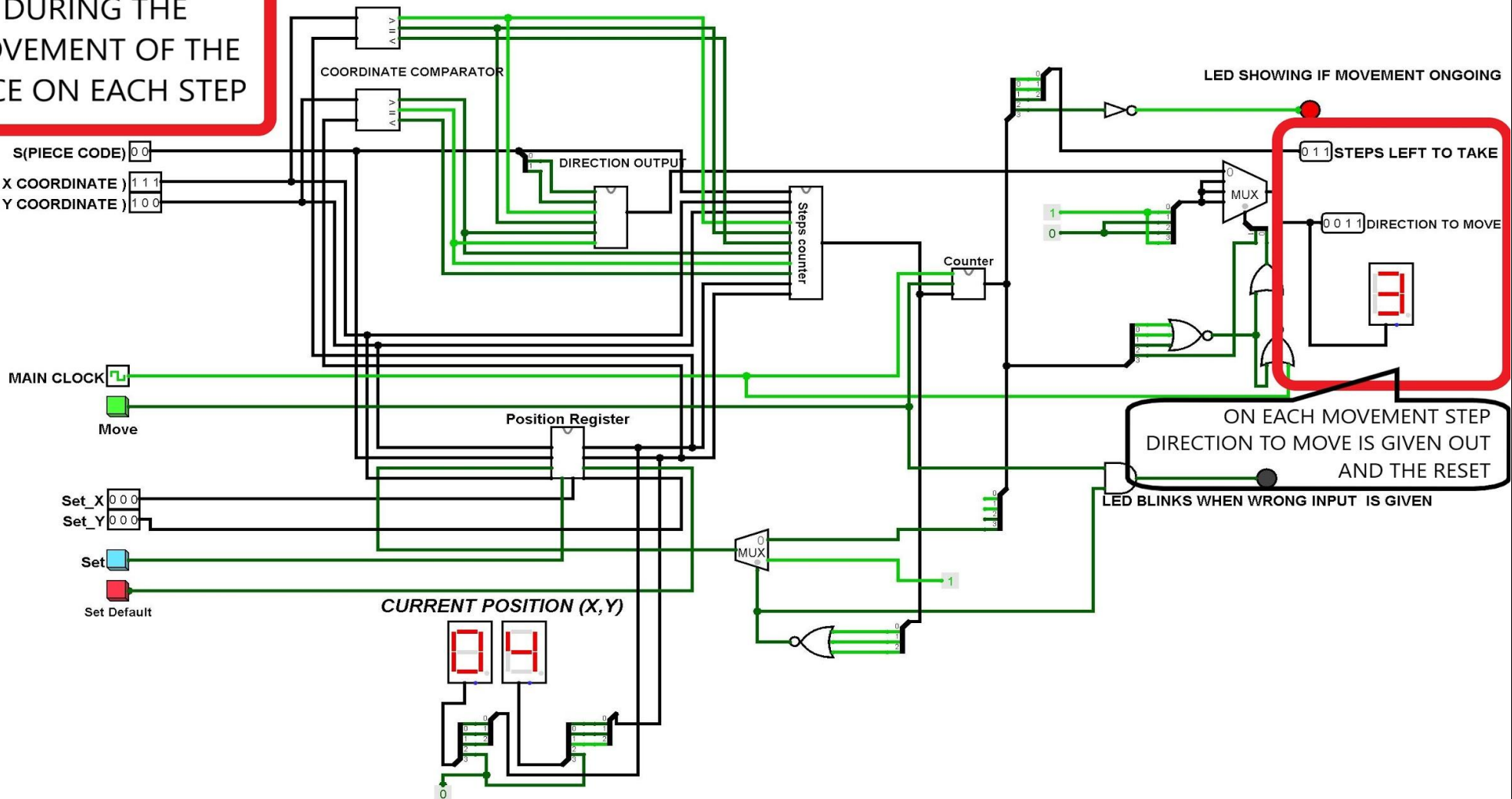


FIG 1.4 WHEN TAKING SOME STEP IN THE MOVEMENT

