ROBOT: ON

- Microphone ON
- Ultrasonic sensor ON
 - LED: green

ELSE:

LED: green
(future goals) traverse the room to map out the initial structure/layout of the room

 Keep updating layout as furniture gets moved

IF EMERGENCY:

Emergency is determined **if** Decibel reading from microphone sensor > 80

- Ultrasonic sensor ON
- LED strip turns red

-delay 20 seconds (during which people are evacuating)

ROGUE enters and starts traversing the room:

- Infrared Sensor ON

else keep traversing room until finished

if degree variable is greater than 87 degrees then person detected

- Saves the (x,y) coordinates (loop)
 - Bluetooth module ON