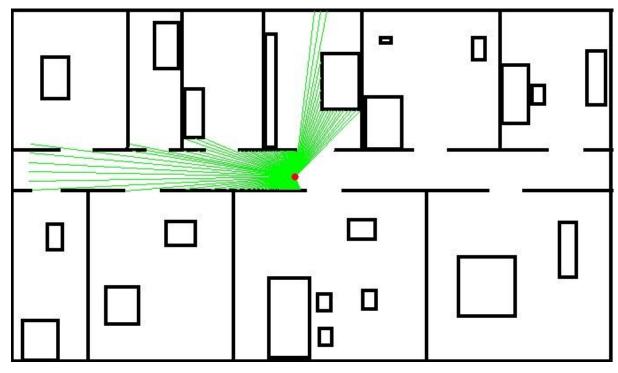
Name: Donia Gameel Mahmoud Mohammed code: 9202523
Robotics - Fall 2023
Assignment 1

Requirement 1:

results at: x = 320

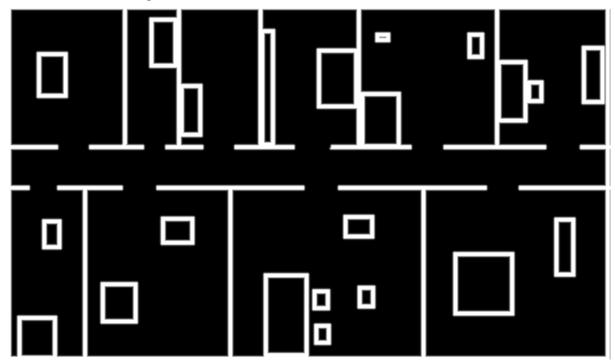
y = 190

theta = 190



Requirement 2:

Likelihood at: sigma = 1.0



Likelihood at: sigma = 5.0



Likelihood at: sigma = 10.0



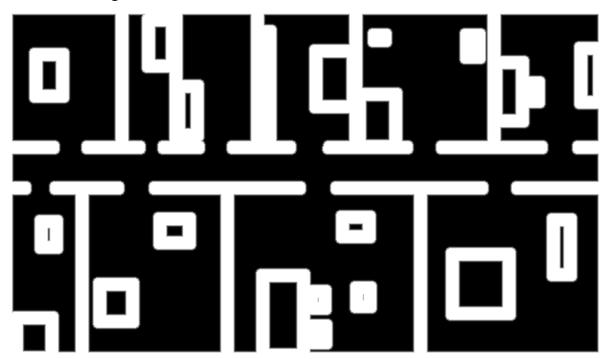
Likelihood at: sigma = 20.0

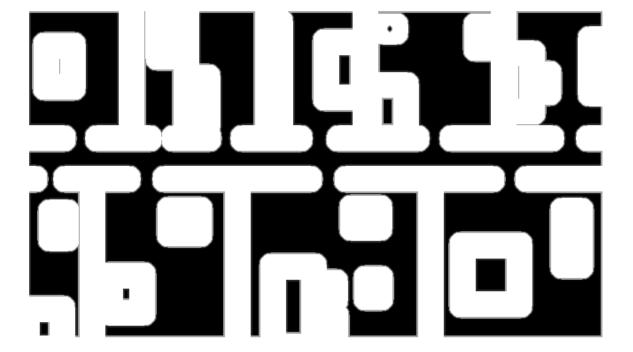


endpoint model map at:

<u>sigma = 1.0</u>

• at laser-range = 0.2





• at laser-range = 1.0





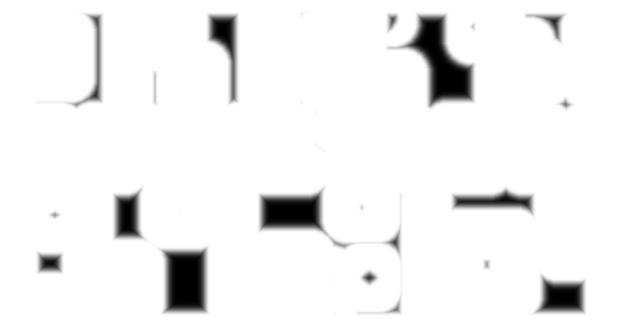
• at laser-range = $3.0 \Rightarrow$ it's a white image

<u>sigma = 5.0</u>



• at laser-range = 0.5





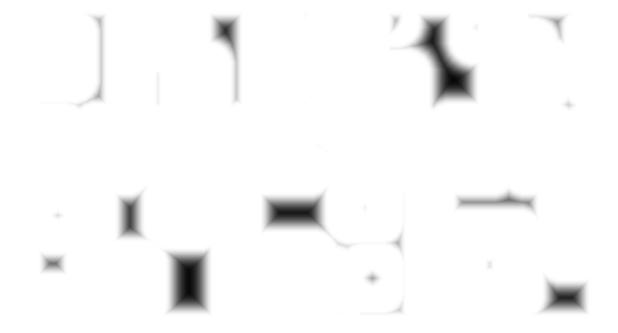
• at laser-range = $3.0 \Rightarrow$ It's a white image

<u>sigma = 10.0</u>



• at laser-range = 0.5





• at laser-range = 2.0

• at laser-range = $3.0 \Rightarrow$ It's a white image

<u>sigma = 20.0</u>

• at laser-range = 0.2





• at laser-range = 1.0

• at laser-range = $3.0 \Rightarrow$ It's a white image