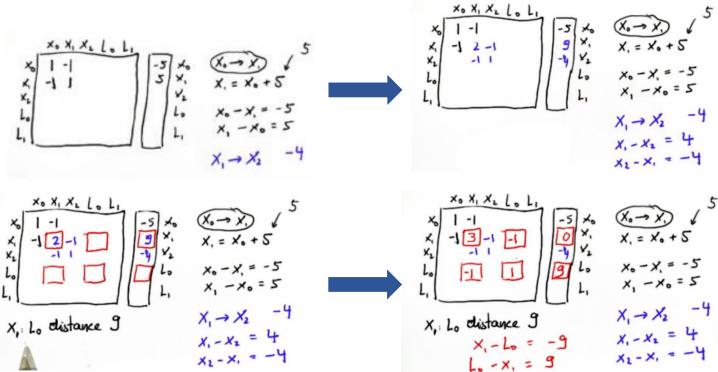
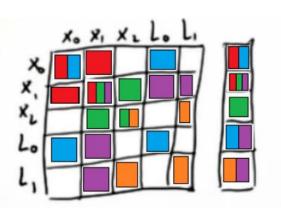


## Farzad Azizi Zade

Mini SLAM Project

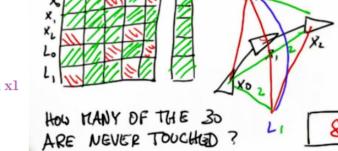






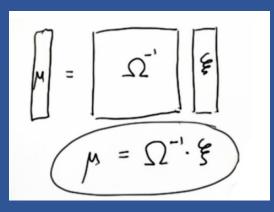
## Color code

Move x0 to x1
Move x1 to x2
Measure L0 from x0
Measure L1 from x2
Measure L0 and L1 from x1



How to find 8 unknowns?

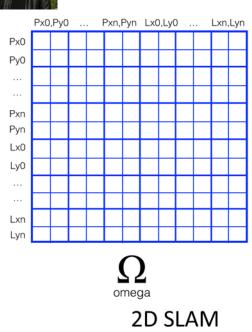
Answer:

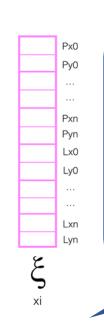


## MU:

contain the estimated robot poses (this is the **localization** part of SLAM) and the estimated location of the landmarks (which is the **mapping**).

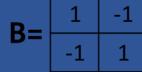


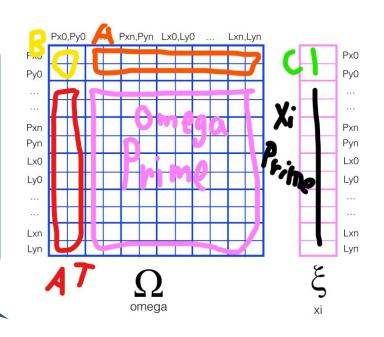


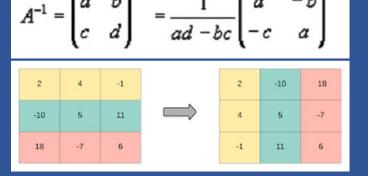


That's why we need to dimx+=1 dimy+=1 when we move or have a new landmark

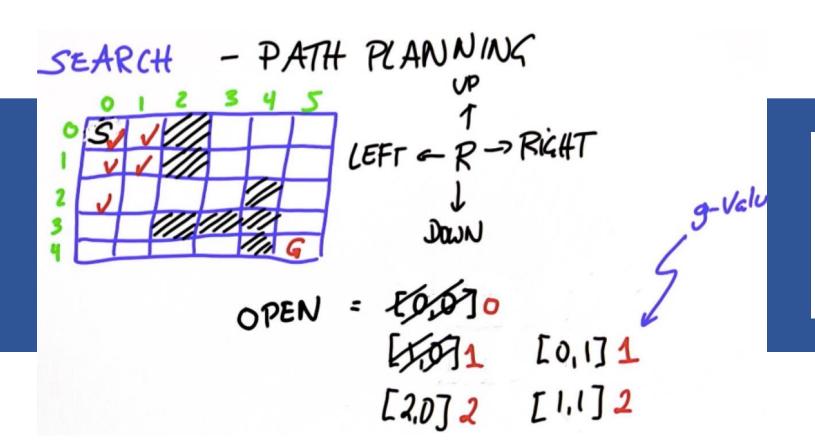
Each step the pink area will be updated



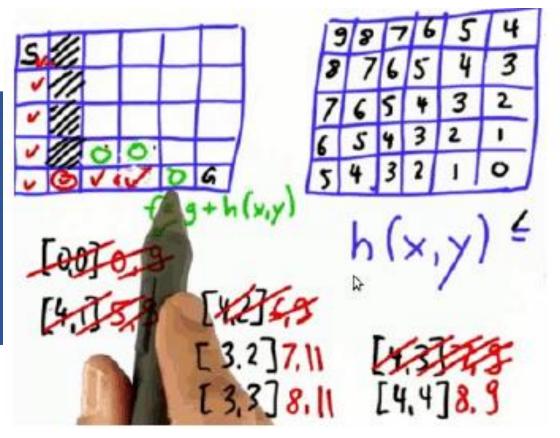


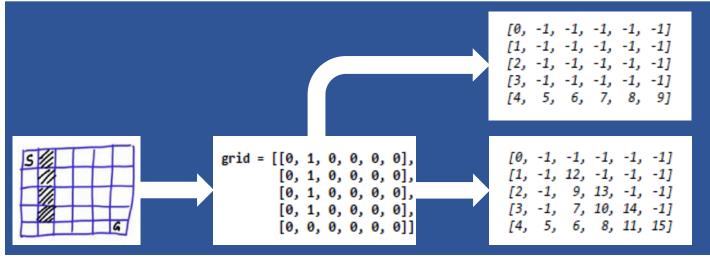








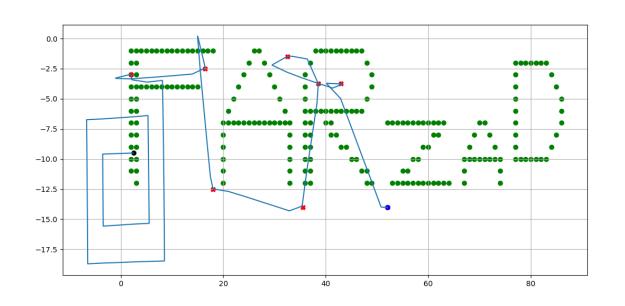


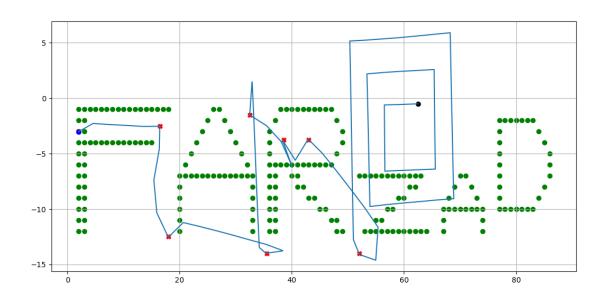


Results









The Best Score is:

part A score: 100.00

part B score: 88.89

score: 92.56

## THE END Thanks for your Time and Consideration



Farzad Azizi Zade Mini SLAM Project Main Resource
Artificial Intelligence for Robotics | Udacity