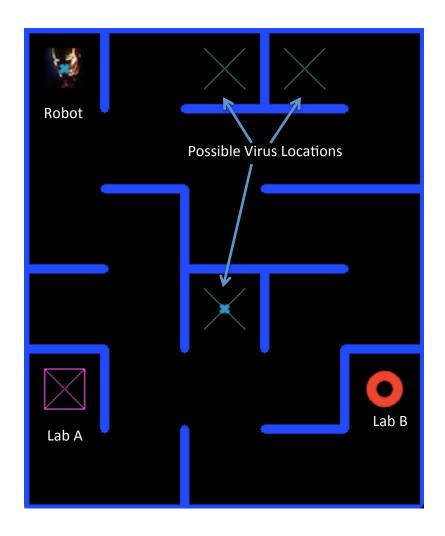
A Mission to the Cure

Your robot is assigned to collect 2 kinds of lethal viruses (A-Virus & B-Virus) for the 2 Labs (Lab A & Lab B).





However, based on the given information and the map, your robot only knows the locations of the 2 labs, 3 possible locations of the viruses and the start point of itself as shown below:



Because of the polluted environment, your will need to command your robot to collect A-Virus for Lab A and B-Virus for Lab B so that they can produce a cure for all mankind.

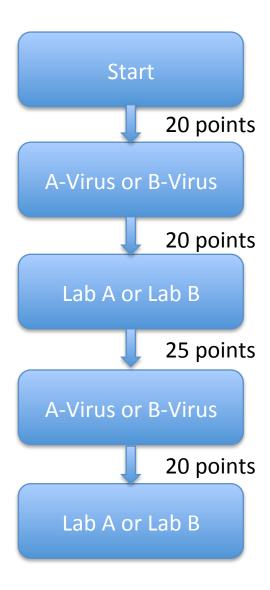
The virus has its own color (Ex: Red = A-Virus; Green = B-Virus). Your robot can use the camera to detect the color of the virus and then decide which lab it should go to. The general flow is:

start -> A-virus or B-virus -> Lab A or Lab B -> A-virus or B-virus -> Lab A or Lab B

At the end, you also need to create a video to introduce

how your robot accomplished the task.

Credits:



20 + 20 + 25 + 20 + 15 (Video) = 100

Hit the Wall: -5 points

For each discontinuity: -10 points

For not returning the components: -5 points/each

component

Video:

In the beginning of your video, you need to show:

Ex:

USC Fall 2015 CSCI 445: Introduction to Robotics

Your Team Number

Team Members' Names

Professor's name

TAs' name

15 Points Video:

https://www.youtube.com/watch?v=-wLlaqWVoGM

5 Points Video:

https://www.youtube.com/watch?v=ZawRqbtVuSc

An Introduction to A* Algorithm:

https://www.youtube.com/watch?v=KNXfSOx4eEE