Project 2

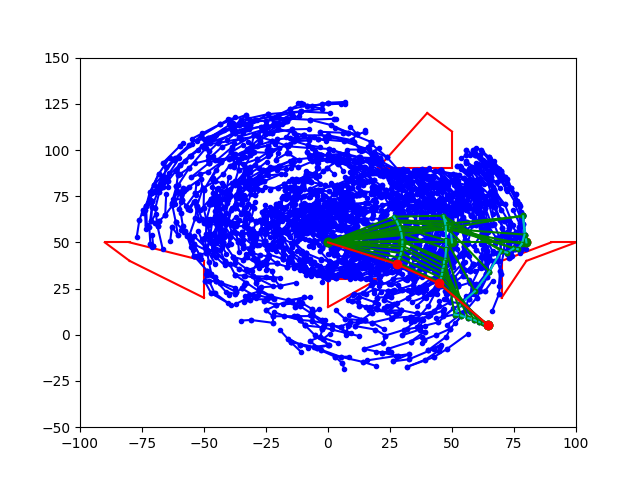
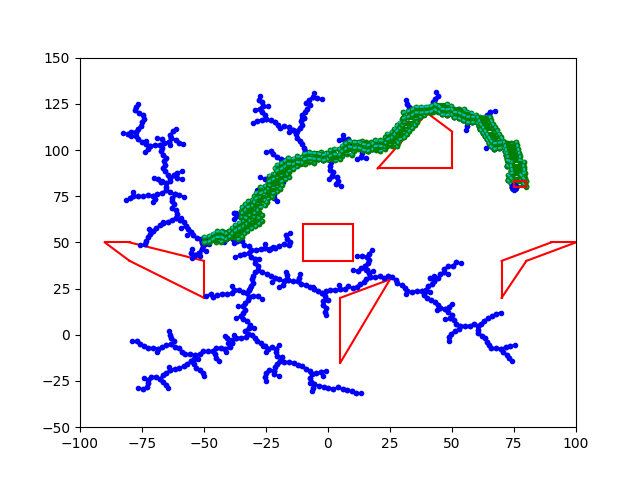
Will Graham

# **Rapidly-Exploring Random Trees**

A picture containing text

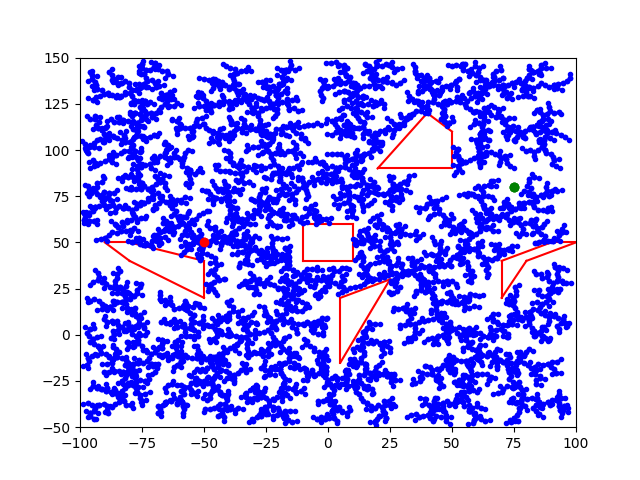
Description automatically generated

Env0 and Env 1 with 5% probability of sampling towards goal





Env0 with 0% probability of sampling towards goal step size of 0.2



Env 0 with 10% probability of sampling towards goal step size of 0.2

Chart

Description automatically generated­­

Env 0 with 50% probability of sampling towards goal step size of 0.2

Chart, line chart

Description automatically generated

* The higher the percentage of sampling the goal, the more directed towards the goal. In our limited environment, this led to much quicker computing times. Unfortunately, this might also lead to our algorithm getting trapped in obstacles.