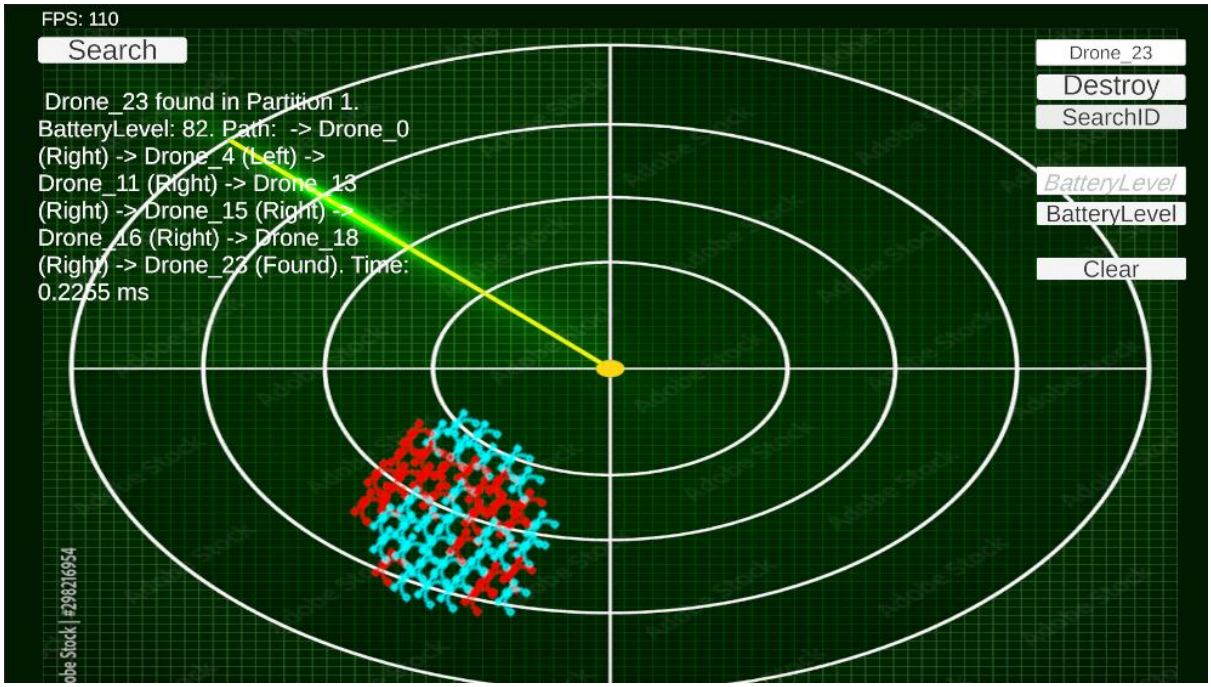
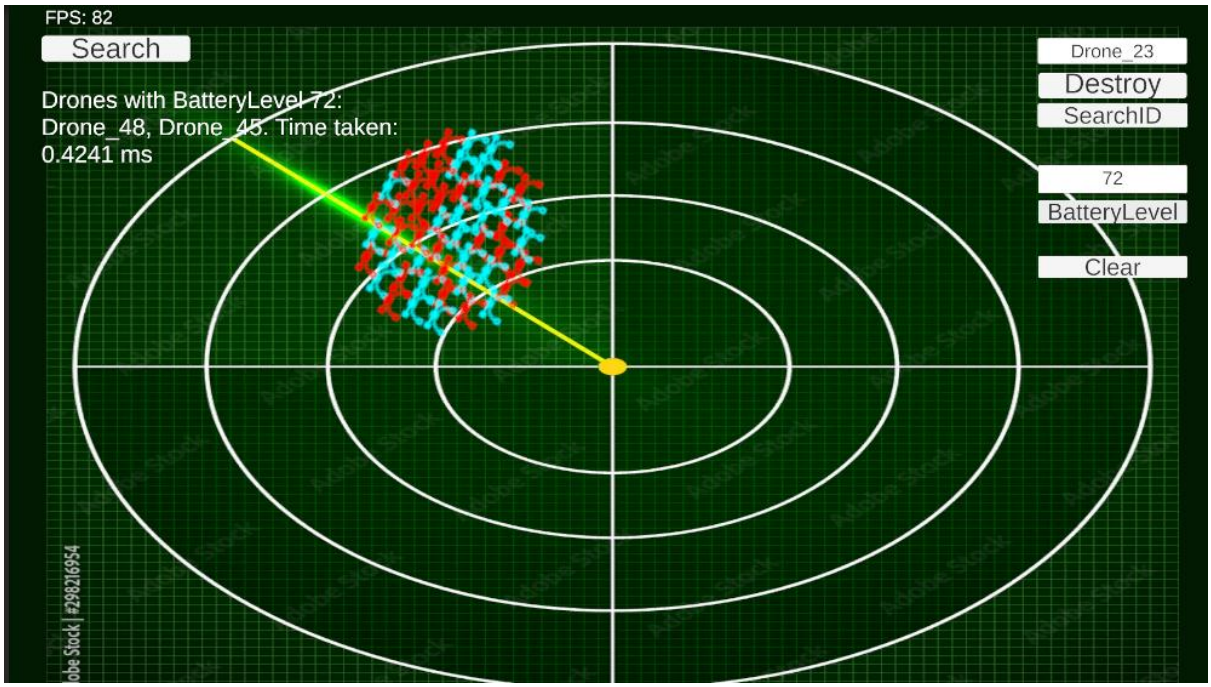
50 Drones :

1.Search Drone ID in Binary Tree



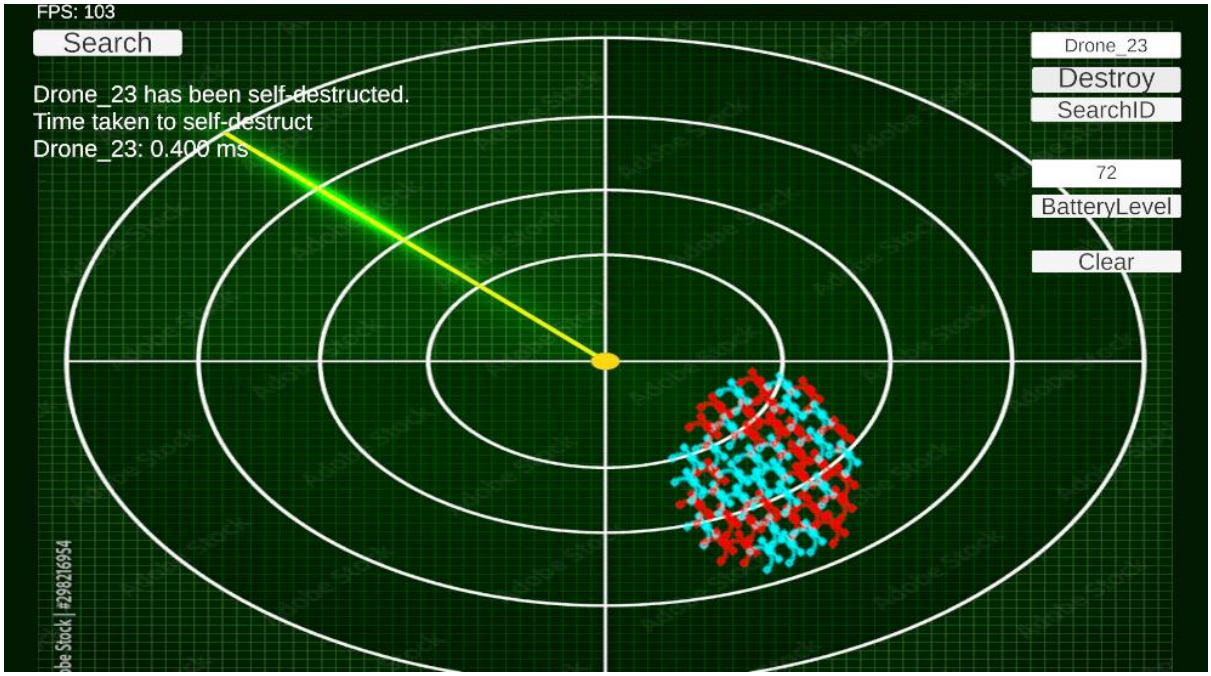
The output says that "Drone_23" was situated in Partition 1 and had a battery level of 82. After following a set of instructions, the search was successfully finished in 0.2255 milliseconds. With an FPS of 110, the system is operating at peak performance.

2. Search drone with specified Battery Level



The output indicates that two drones, designated "Drone_48," with a battery level of 72 were found after a search duration of 0.4241 milliseconds. The system operates 82 frames per second.

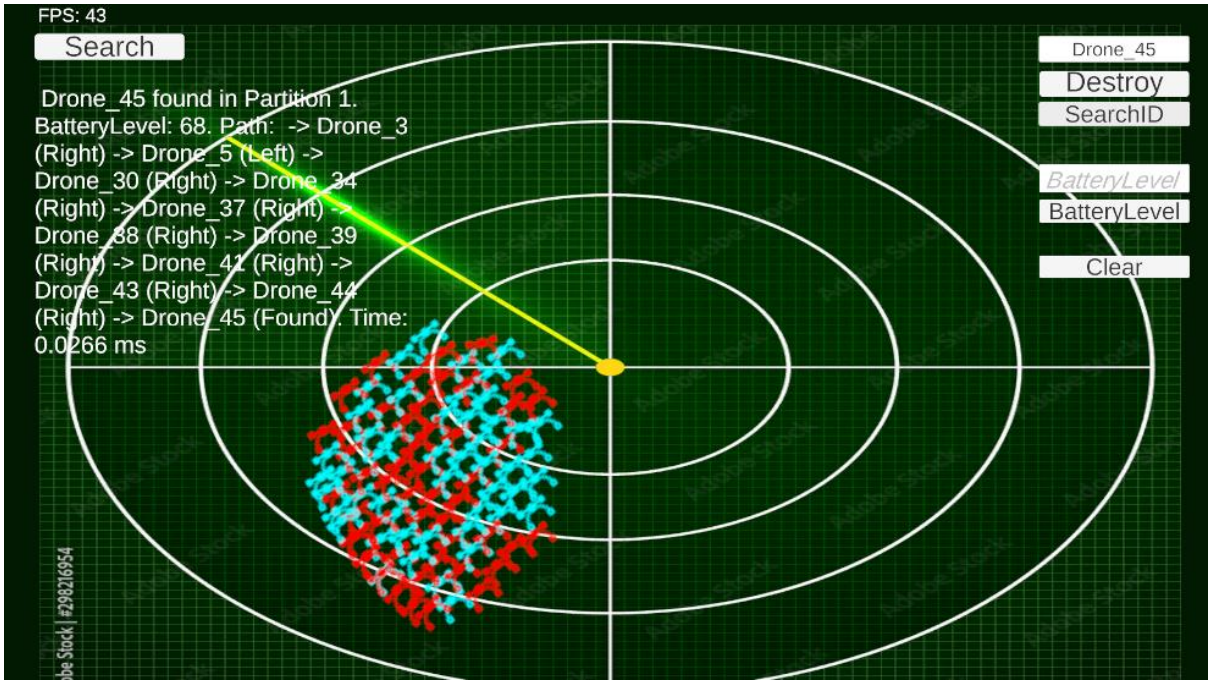
3. Destroy drone with specified Drone ID



The output indicates that "Drone_23" successfully self-destructed, which took 0.400 milliseconds to complete. The system is now operating at 103 FPS.

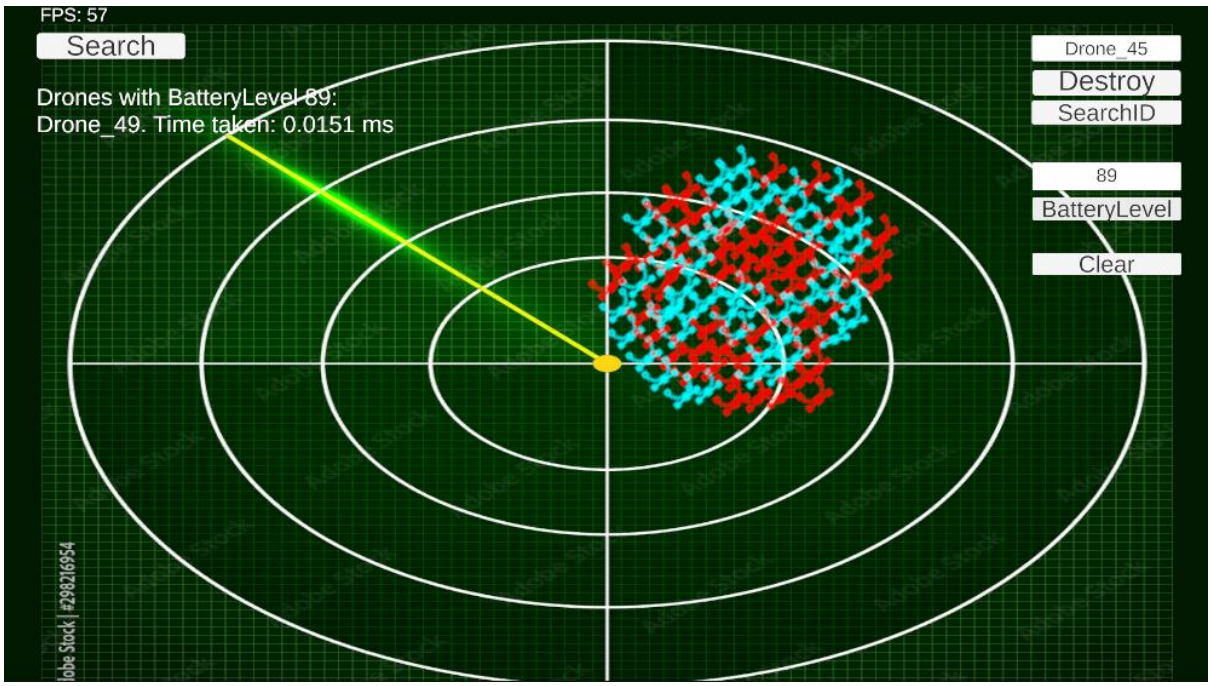
Drone 100 :

1.Search Drone ID in Binary Tree



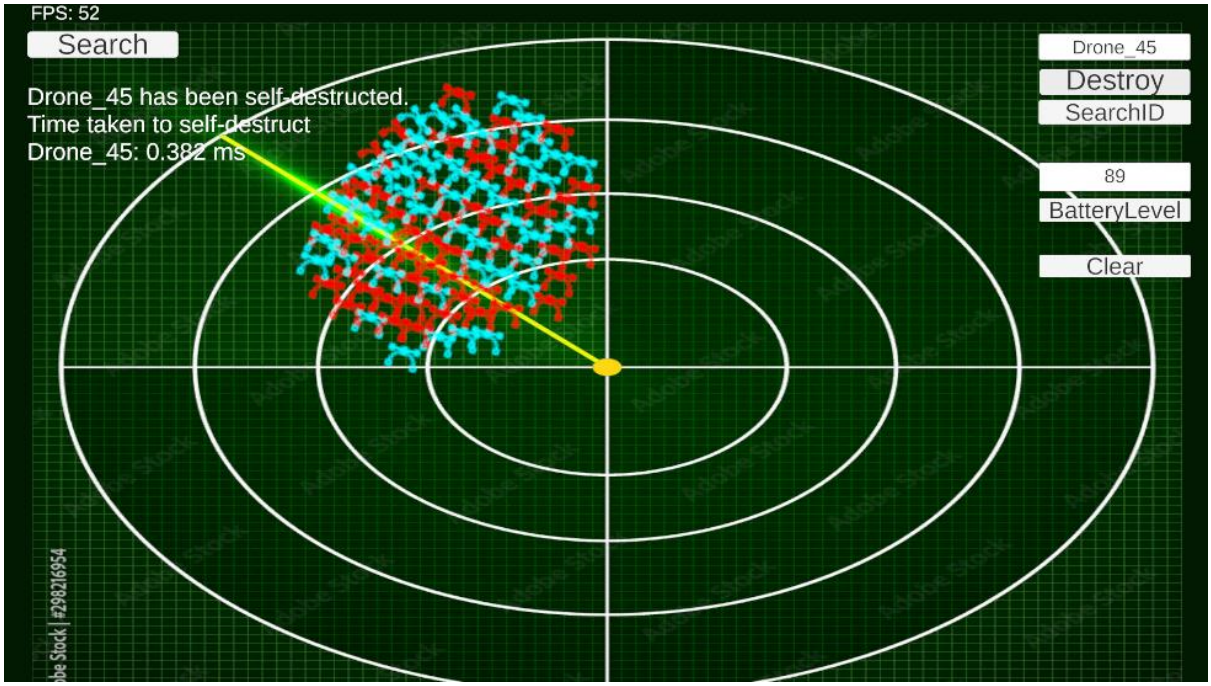
The output indicates that "Drone_45" was in Partition 1 and had a battery level of 68. The search took 0.0666 milliseconds, and the system is running at 43 FPS.

2. Search drone with specified Battery Level



According to the output, "Drone_45" with a battery level of 89 was found after a search that took 0.0151 milliseconds. The system is now operating at 57 FPS.

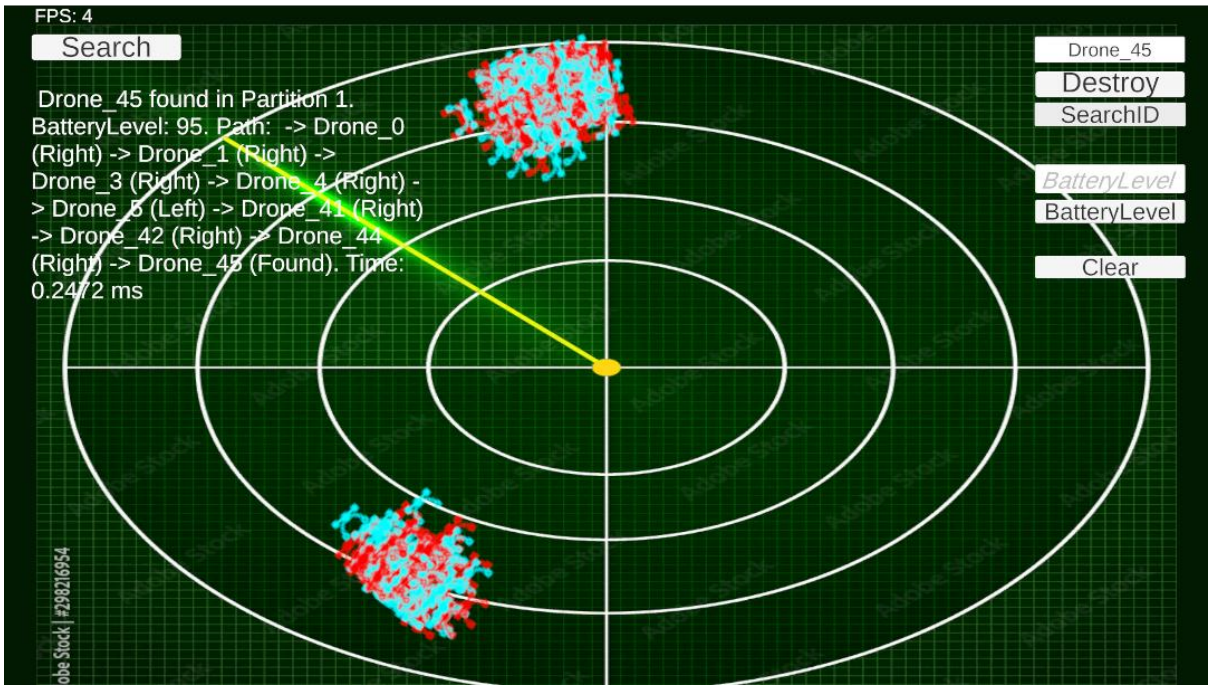
3. Destroy drone with specified Drone ID



It took 0.382 milliseconds for "Drone_45" to self-destruct, according to the output. 52 FPS is the system's current speed.

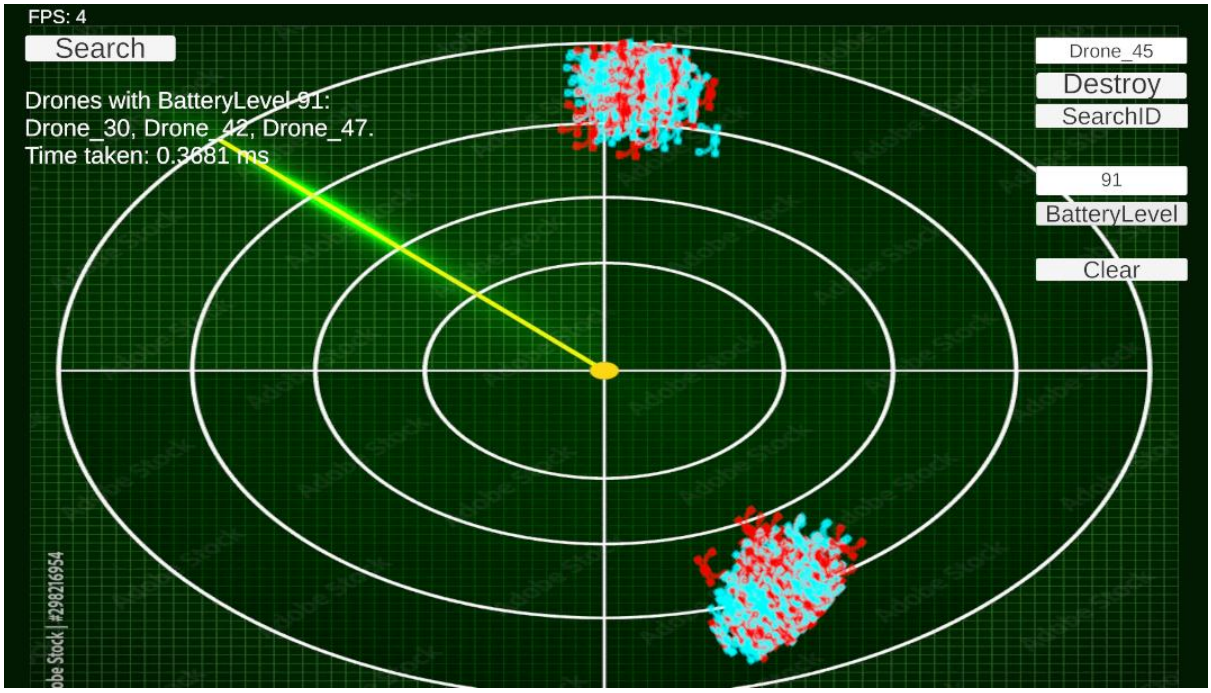
500 Drones :

1.Search Drone ID in Binary Tree



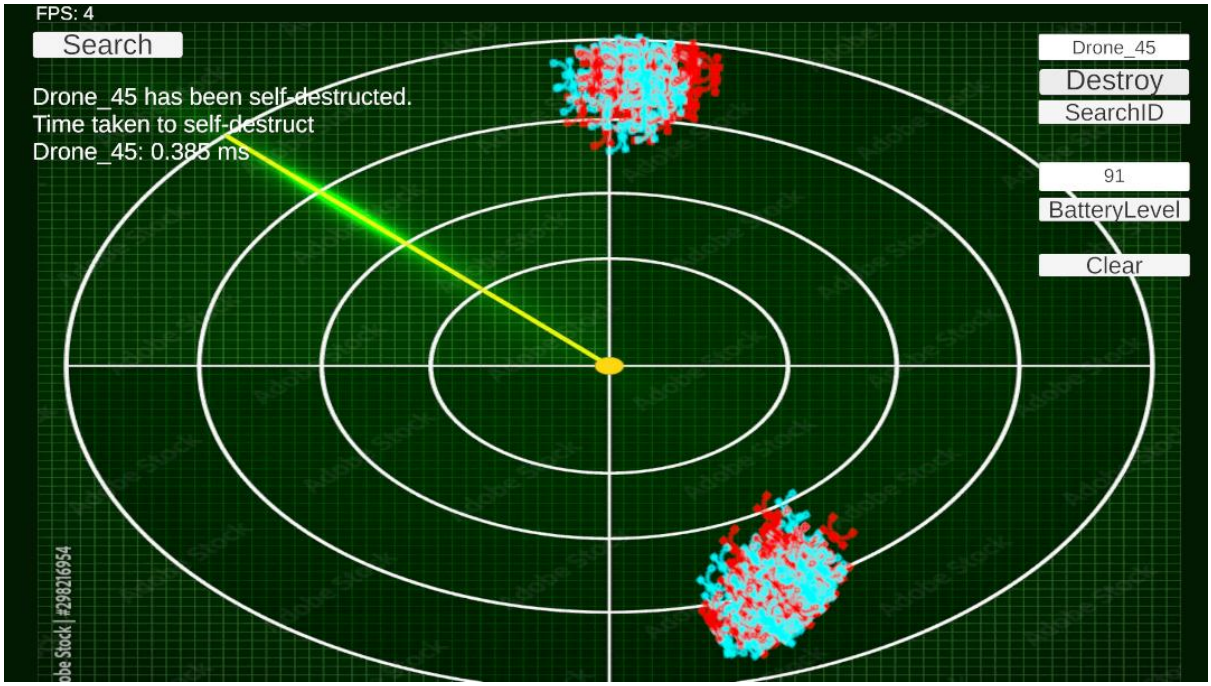
The output indicates that "Drone_45" was in Partition 1 and had a battery level of 95. The search took 0.2472 milliseconds, and the system is running at 4 FPS.

2. Search drone with specified Battery Level



Based on the output, "Drone_45" with a battery level of 91 was found after a search that took 0.3681 milliseconds. The system is now operating at 4 FPS.

3. Destroy drone with specified Drone ID



The program took 0.385 milliseconds for "Drone_45" to self-destruct, according to the output. 4 FPS is the system's current speed.

Unfortunately, for 1000 Drones, our machine can’t go further because of the machine keep crashing after we run the code.

PC Specifications for the test :

CPU : Intel i7-11370H

GPU: Nvidia RTX 3050 Ti

RAM: 40GB

Storage: 1.5TB SSD