

# How to Launch and Play

## Launching

We have included the BlackBox.jar file in our submission.

In order to execute this file, you need to run the following command:

Unset

```
java --module-path "path\to\javafx\lib" --add-modules  
javafx.controls,javafx.fxml -jar BlackBox.jar
```

Replacing “path\to\javafx\lib” with the path to the javaFX lib folder installed locally.

We compiled using JDK 20.

## Playing

Currently, in order to play you can click on any of the entry points to fire a ray, then the result of firing the ray is printed to the terminal. It will either display “Direct Hit” if you hit an atom, or give the coordinates it exited at if you don’t hit anything. There is an option to toggle guess, when this is pressed the user can press on the hexagons to guess where the atoms are located. The user is able to submit guesses after 4 positions have been chosen. The points are then displayed, but are currently not accurate.