

CRITERION	MARK
<p><u>Code execution / observed functionality.</u></p> <p><i>Mostly works, but during one game I received an <code>IndexOutOfBoundsException</code> (index -1) from <code>JavaFX</code>, which makes me suspect you have race conditions from failing to use <code>Platform.runLater()</code> when needed.</i></p>	
<p>1. <u>Appropriate division of responsibilities among threads/tasks.</u></p>	<u>4 / 4</u>
<p>2. <u>Appropriate use of a blocking queue and other thread communication mechanisms as needed.</u></p>	<u>4 / 4</u>
<p>3. <u>Appropriate use of a thread pool and other thread-creation logic.</u></p> <p><i>34 is a suspiciously arbitrary number of threads.</i></p> <p><i>Also, while I can see the logic behind starting a new 'robotThread', there is a risk that this sort of approach will introduce race conditions, because it's a two-step process of starting the task and (separately) supplying its data via a <code>BlockingQueue</code>. It would be more robust to do this via a method parameter in some way.</i></p>	<u>2 / 3</u>
<p>4. <u>Appropriate use of threading mechanisms in general to prevent race conditions and deadlocks.</u></p> <p><i>There is a race condition somewhere in your GUI handling code.</i></p> <p><i>Also, though it's a minor point in this case, I'd have <code>launchMissile()</code> throw <code>InterruptedException</code>, and give responsibility to the calling code for catching it. (In the general case you want <code>InterruptedException</code> to propagate as far as it can.)</i></p>	<u>2 / 3</u>
<p>5. <u>Your code follows best practice in terms of readability and maintainability.</u></p> <p><i>FYI, having a class called "Threading" is a bit of a red flag in terms of design structure. It doesn't really say what the class's actual purpose is.</i></p>	<u>3 / 3</u>
<p>6. <u>Your actual design is thoroughly explained.</u></p>	<u>3 / 3</u>
<p>7. <u>You convincingly identify a range of relevant issues that would need to be solved, in order for a multi-player version of the system to be created.</u></p> <p><i>It is likely that you'll need separate threads on the clients to handle network communication; it's generally not wise to do this in the GUI thread.</i></p>	<u>4 / 5</u>
<p>8. <u>You convincingly explain what architectural decisions could be made to solve the issues identified.</u></p> <p><i>Making the application distributed doesn't in itself address make it cross-platform.</i></p> <p><i>Having the server control the information is sensible, but the clients need this information too at some level. Overall I'd just like to see a bit more depth on this.</i></p>	<u>2 / 5</u>
Total	<u>24 / 30</u>