# Function Description

**Function Name:** dispatchTruck

**Parameter List:**

|  |  |  |
| --- | --- | --- |
| Parameter Name | Type | Description |
| trucks | const struct Truck[] | The array of struct Truck indicating the trucks running on different routes (blue, green, yellow) |

**Returns:** The return type is int, which is the index of the array of struct “Truck” passed into this function most suitable for dispatching. If no truck is ready for dispatching, -1 will be returned.

**Description:** This sorts the incoming array of struct “Truck” by their data members including minimum distance to the destination (minDistance), flag indicating if they are ready for dispatching (isReady), % weight and % volume. If there are ready trucks, return the index of the best fit truck at the same time updating its weight, volume and isReady data members. Otherwise, return the faulty output.