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| Function: findTruckForShipment | Data | Expected Result | Description |
| Test1(yellow route, blackbox) | Map struct  Trucks[{1000, 36, ‘b’}, {1000, 36, ‘g’}, {1000, 36, ‘y’}]  numTrucks = 3 shipment {10, 1, 22B} | 2 | Test to see if nearest route is returned |
| Test2(blue route, blackbox) | Map struct  Trucks[{1000, 36, ‘b’}, {1000, 36, ‘g’}, {1000, 36, ‘y’}]  numTrucks = 3 shipment {10, 1, 12L} | 0 | Test to see if nearest route is returned |
| Test3(green route, blackbox) | Map struct  Trucks[{1000, 36, ‘b’}, {1000, 36, ‘g’}, {1000, 36, ‘y’}]  numTrucks = 3 shipment {10, 1, 7S} | 1 | Test to see if nearest route is returned |
| Test4(same distance different availability, blackbox) | Map struct  Trucks[{700, 35, ‘b’}, {800, 35, ‘g’}, {900, 35, ‘y’}]  numTrucks = 3 shipment {10, 1, 3C} | 2 | Test to see if the most available truck is returned |
| Test5(same distance different availability, blackbox) | Map struct  Trucks[{700, 35, ‘b’}, {700, 34, ‘g’}, {700, 33, ‘y’}]  numTrucks = 3 shipment {10, 1, 3C} | 0 | Test to see if the most available truck is returned |
| Test6(one truck not available, blackbox) | Map struct  Trucks[{400, 35, ‘b’}, {700, 34, ‘g’}, {700, 33, ‘y’}]  numTrucks = 3 shipment {500, 1, 14U} | 1 | Test to see if the truck that can’t hold the package is ruled out |
| Test7(all full, blackbox) | Map struct  Trucks[{0, 3, ‘b’}, {0, 4, ‘g’}, {0, 3, ‘y’}]  numTrucks = 3 shipment {500, 1, 14U} | -1, printf(ship tomorrow) | Test to see if out-of-bound letter input returns false |
| Test8(enough size/not enough weight, blackbox) | Map struct  Trucks[{500, 3, ‘b’}, {100, 4, ‘g’}, {0, 3, ‘y’}]  numTrucks = 3 shipment {500, 1, 13U} | 0 | Test to see if both size and weight are checked |
| Test9(enough weight/not enough size, blackbox) | Map struct  Trucks[{700, 1, ‘b’}, {700, 0.5, ‘g’}, {0, 3, ‘y’}]  numTrucks = 3 shipment {500, 1, 13U} | 0 | Test to see if both size and weight are checked |
| Test10(enough weight/not enough size, blackbox) | Map struct  Trucks[{500, 0.25, ‘b’}, {500, 0.25, ‘g’}, {500, 0.25, ‘y’}]  numTrucks = 3 shipment {500, 1, 13U} | -1 | Test to see if both size and weight are checked |
| Test11(enough weight/not enough size, blackbox) | Map struct  Trucks[{100, 1, ‘b’}, {100, 1, ‘g’}, {100, 1, ‘y’}]  numTrucks = 3 shipment {500, 1, 13U} | -1 | Test to see if both size and weight are checked |