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| Function: checkCapacity | Data | Expected Result | Description |
| Test1(Empty truck, blackbox) | Truck {1000, 36}  Shipment {100, 1} | true | Test to see if a truck capacity greater than shipment size |
| Test2(Full truck, blackbox) | Truck {0, 0}  Shipment {200, ¼} | false | Test to see if a truck capacity less than shipment size |
| Test3(Full shipment, blackbox) | Truck {300, 10}  Shipment{200, 1/2} | true | Test to see if a truck capacity = dshipment size |
| Test4(the rest size, blackbox) | Truck {20, 1/2}  Shipment{10, 1} | false | Test to see if a the rest size is 2 and size is 1 |
| Test5(weight is full and size is not full, blackbox) | Truck {0, 2}  Shipment{150, 1} | false | Test to see if a weight is full and size is not full |
| Test6(Truck full size, blackbox) | Truck (100, 0)  Shipment (500, ½) | false | Test to see if a weight is not full and size is full |