

Struct Shipment package;

- * returns 2 if shipment is assigned to the blue truck
- * returns 4 if shipment is assigned to the green truck
- * returns 8 if shipment is assigned to the yellow truck
- * returns -1 if shipment cannot be delivered today

Blackbox Test Cases			
Function: AssignTruck()	Data	Expected Result	Description
Test01	Struct Point destination = {7,24} Package.weight = 10 Package.vol = 0.5	Return 4	Test to see if the function returns 4(symbol of green truck) when destination is closest to green route
Test02	Struct Point destination = {10,12} Package.weight = 100 Package.vol = 0.5	Return 2	Test to see if the function returns 2 (symbol of blue truck) when destination is closest to blue route
Test03	Struct Point destination = {15,0} Package.weight = 40 Package.vol = 0.25	Return 8	Test to see if the function returns 8 (symbol of yellow truck) when destination is closest to yellow route
Test04	Struct Point destination = {22,1} Package.weight = 1000 Package.vol = 1	Return -1 (if all trucks are full)	Test to see if the function returns -1 when all trucks are full, and shipment cannot be delivered today.
Test 05	Struct Point destination = {15,0} Package.weight = 40 Package.vol = 0.25 Trucks[2].cargoWeight = 1000;	Return 2	The package is closest to yellow (symbol 8) but is full. Second closest truck is the blue truck (code 2).
Test 06	Struct Point destination = {15,0} Package.weight = 40 Package.vol = 0.25 Trucks[2].cargoVol = 36;	Return 2	The package is closest to yellow (symbol 8) but is full. Second closest truck is the blue truck (code 2).

Test07	Struct Point destination = {10,12} Package.weight = 100 Package.vol = 0.5 Trucks[0].cargoWeight = 1000	Return 8	The package is closest to blue (symbol 2) but is full. Second closest truck is the yellow truck (code 8).
Test08	Struct Point destination = {10,12} Package.weight = 100 Package.vol = 0.5 Trucks[0].cargoVol = 36	Return 8	The package is closest to blue (symbol 2) but is full. Second closest truck is the yellow truck (code 8).
Test09	Struct Point destination = {7,24} Package.weight = 10 Package.vol = 0.5 Trucks[1].cargoWeight = 1000	Return 2	The package is closest to green (symbol 4) but is full. Second closest truck is the blue truck (code 2).
Test10	Struct Point destination = {7,24} Package.weight = 10 Package.vol = 0.5 Trucks[1].cargoVol = 36	Return 2	The package is closest to green (symbol 4) but is full. Second closest truck is the blue truck (code 2).