

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

| Whitebox Test Cases | | | |
|-----------------------------------|---|--|--|
| Function: AssignTruck() | Data | Expected Result | Description |
| Test05 | Struct Point destination = {6,1} Package.weight = 500 Package.vol = 0.5 | Return 2 OR 8 (depend on which truck has higher weight) | Test to see if the function returns 2 OR 8 (symbols of blue and yellow truck) when destination is closest to both blue and yellow route |
| Test06 | Struct Point destination = {1,21} Package.weight = 800 Package.vol = 1 | Return 4 (OR 2 if green truck is full) | Test to see if the function returns 4 (symbol of green truck) when destination is closest to green route |
| Test07a | Struct Point destination = {14, 4} 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 (if yellow truck is not full) |
| Test08 | Struct Point destination = {13,20} Package.weight = 900 Package.vol = 1 | Return 2 (OR 4 if blue truck is full) | Test to see if the function returns 2 (symbol of blue truck) when destination is closest to blue route and green |