**Struct Shipment package;**

\* returns : assigned to the blue truck

\* returns assigned the green truck

\* returns 8 if assigned to the yellow truck

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| \* 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 |