Assignment 6

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1.  Suppose a used car dealer sells the following types of vehicles: ***2-door sedans***, ***4-door sedans***, ***SUVs***, ***pickup trucks***, and ***motorcycles.***

1. If your coverage criterion says to test drive each type of vehicle, how many **test requirements** do you have?

You have 5 test requirements.

1. Describe a potential **observability** issue that you might need to solve to satisfy your test drive criterion.
2. Describe a potential **controllability** issue that you might need to solve to satisfy your test drives.

I do not have my motorcycle license, therefore I cannot test drive a motorcycle.

1. If you were asked to test drive one hybrid and one gasoline vehicle of each type, how many **test requirements** will you have?

You will have 10 test requirements.

2.

a. It fails the disjointness property because for example you could have a list with elements [5,8,2,5,3] and search for element 5. Element 5 is both in the first entry in the list and in the middle of the list (not first entry or last entry). It is the same situation if element 5 was the last entry in the list and also in the middle of the list. There is also a situation where the element could be both in the first and last entry of the list.

b. It fails the completeness property because for example if the list was null or if the element you were searching for was null or that element was not in the list at all then there is no block to handle that test.

c.

block 4: element is not in the list

block 5: more than one element in the list (first entry and middle)

block 6: more than one element in the list (last entry and middle)

black 7: more than one element in the list (first entry and last entry)

block 8: element is null

block 9: list is null

block 10: list is empty