

## CSE 341 — Prolog Difference List Discussion Questions

These questions use the Prolog rules in the difference list examples.

1. Which of the following lists represent valid difference lists? For valid difference lists, what list do they represent?

```
[1,2|T]\T  
[1,2,3]\[]  
[1,2,3]\[1,2]  
[1,2,3|T]\[3|T]  
[1,2,3]\[1,2,3]
```

2. Draw the derivation tree for the following goals:

```
?- reverse([1],R).  
?- quicksort([2,1,3],S).
```