PART II

1. Assign operator

2. $\Theta(1)$ Doble Linked List has $\Theta(1)$ in odd and last.

3. $\Theta(1)$. No loop. no input n.

4. DLL get method can take $O(n)$. Show Furnitures is $\Theta(n*m)$.

   so, $\Theta(n*m)$

5. $O(n)$. If index is not head or tail DLL get() method may take $\Theta(n)$ time.

   So $O(n)$.

6. $\Theta(1)$ time. ArrayList add method takes amortized constant time.

7. first_supply(Furniture) method takes $O(n)$ time.
   first_supply(ColoredFurniture) method takes $O(n*m)$ time

   So, $3O(n*m) + 2O(n) = O(n*m)$

8. $O(n*m)$ time. Hybridlist get method may take $\Theta(n)$ time. n loop condition

9. $O(n*m)$ time. Hybridlist get method may take $\Theta(n)$ time. m loop condition,

10. $\Theta(1)$. No input

11. $\Theta(n) + \Theta(m)$ time. n is model count, m is color count. Linear time.

12. $O(n*m)$ time. May take infinite time because of the loop that doesn't end until correct input.

13. $\Theta(n)$ time. HybridList add method is constant. n is model_count

14. $\Theta(1)$ time. .add() methods takes constant time.
addLast()

15. $\Theta(1)$ time. login() method takes constant time.

16. $\Theta(1)$ time. id_check() method takes constant time.

17. Normally $\Theta(n^2)$ time. But since DLL use iterator, get method takes constant time, so $\Theta(n)$.

18. $\Theta(1)$ time. Arraylist get method takes constant time.

19. $\Theta(1)$ time. Arraylist get method takes constant time.

20. $\Theta(n)$ time. Show branches takes $\Theta(n)$ time, there is no other function that has quadratic growth.

21. $\Theta(1)$ time. No input

22. $\Theta(n*m)$ time. Calls show_furnitures() in both cases.

23. $\Theta(n*m)$ time. Customer_menu takes $\Theta(n*m)$ time

24. $\Theta(1)$ time. No input.