Shawn (#4454)

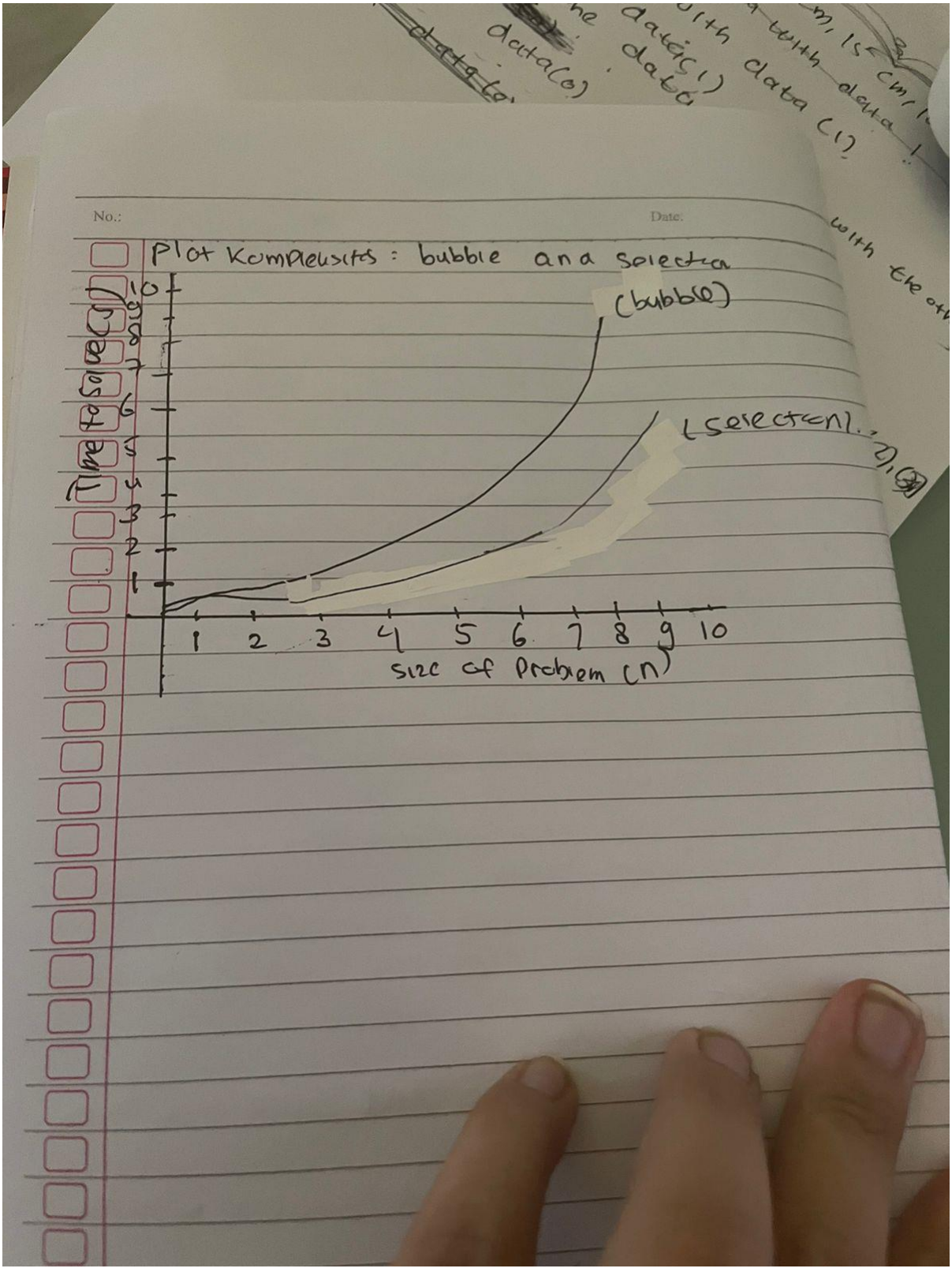
No.: Date:

Case:
I have 5 water bottle with different height each bottle I want to put them in my cupboard with the correct order where the shortest on the very left and the tallest is (in the very Right. the order in my cupboard now are (21cm, 20cm, 15cm, 16cm, 18cm).
1 2 3 4 5.

* Bubble Sort -) worst case ($O(n^2)$)
1. Look at the first and second data
2. IF First data < second data
3. do nothing
4. Else IF First data > second data
5. Swap them around
6. Look at the second data and third data.
7. IF second data < third data
8. do nothing
9. Else IF second data > third data
10. Swap them around
11. Repeat this until the Fourth data
12. END

Selection Sort -) worst case : $O(n^2)$.
1. Look at all the data
2. Find the smallest number and swap it with the first data
3. Find the second smallest and swap it with the second data
4. Repeat Find the smallest number until the last data sorted
5. END

OKEY


No.:
Date:
Plot Komplexitas : bubble and selection
(bubble)
(selection)
Time (second)
1
2
3
4
5
6
7
8
9
10
Size of Problem (n)