1.For question1 I chose E but claim II is wrong. Instead, claim I is the right one. There are cases that sorts have recursive calls before the last step. For example, mergesort and quicksort.

4.It’s a simple translate from hexadecimal numbers to binary numbers. 2 to3 will just add 1 digit to it. A represents 10 and D represents 13. Then I can just add a 3 to 1010 to get 1101. So the result should be A. I gave the wrong calculation during the exam.

1. I chose D for question8. But line 3 needs to be changed because the if k starts with NUMARDS, the method encounters cards [NUMCARDS] on line7 and throws an ArrayIndexOutOfBoundsException.
2. I got % and / missing so I only got two steps for the table instead of 4.
3. (b) I had the wrong idea about how to divide the tree. It shouldn’t be divided by lines(L1/L2) and the tree is only for the four stations. The correct answer should be using the first latter to divide the tree.

(c)The beginning index is 0 but not 1.

(e)Firstly, the code should give out a table. But I designed it only by input and find the result by if and else if which not fit the ask of the question. So a two dimensional matrix and a for loop are needed.

1. (a)Need to get familiar with the characteristics of OOP approach.

(b)I missed the ask of question, I thought the ethical issues are for the users but not the developer.

(e)Need to know the definition of static and the functions of loan class.

1. (b)Need to know the function of main class and complete the method with proper codes. Don’t have enough time to finish the question.

(c)Lose one of the aspects. Didn’t have enough time.

(d)and14. Didn’t got enough time to finish the questions.