Question 1. Short Answer Questions

(60 points)

Fill in the box with the answer.

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Question 2. Coding 1

(20 points)

Complete the overridden method void addFirst(Titem).

It is a method of the class DelimitedARDeque, a subclass of an iterable ARDeque.

It adds an item to the front of the object of DelimitedARDeque,

but it will throw an IllegalArgumentException if the item already occurs in it more than once.

Test case:

Question 3. Coding 2

(20 points)

Complete the method boolean equals(Object that) of an iterable ARDeque that overrides the one in Object.

To be the same, they must be of the same size, and must share at most 1 different items at the same position.

Suppose [] is an ARDeque<Integer>. Then:

$$[1, 2, 3].equals([1, 2, 5]) \rightarrow true$$

$$[1, 3, 2].equals([1, 2, 3]) \rightarrow false$$

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