

1. Create an implementation of LinkedList in Java. The class must have the following functionalities:
 - a. Add new Object
 - b. Add an array of Objects
 - c. Add at a particular index
 - d. Remove an Object by providing Object details
 - e. Remove an Object at a particular index
 - f. Check whether an Object exists in the list
 - g. Iterator functionality by implementing the Iterator as an inner class
 - h. Provide sorting in the linked list using merge sort.