

Write a Java Program to handle the exceptions to the ListADT which you have implemented.

- a. add(int) : Inserts the specified element at the end of the list.
- b. size() : Returns the number of elements in this list.
- c. remove(int): Remove an element at given index in list.
If the index is out of range, then throw a new Invalid Position Exception with message "**Invalid Position Exception**".
- d. get(int) : returns the element at the given index.
- e. toString() : Converts and Returns the current list as a String value.
- f. contains(int): returns true, if given element is in list.
- g. indexOf(int): Returns the index of the first occurrence of the specified element in this list, or -1 if this list does not contain the element.
- h. addAll(int[]): Inserts all the elements of specified int array to the end of list.
- i. add(int ,int): Inserts the specified element at the specified index by moving all the elements to the right.
- j. count(int): Returns the count of occurrences of a given item in the list
- k. removeAll(int[]) : Removes all its elements that are contained in the specified int array.
- l. subList(int, int) : Returns a list containing elements, including startIndex and excluding endIndex. The first parameter indicates the startIndex and the second parameter indicates the endIndex. If the index is out of range, then throw a new Index Out of Bounds Exception with message "**Index Out of Bounds Exception**".
- m. equals(List) : Returns a boolean indicating whether the parameter i.e a List object is exactly matching with the given list or not.
- n. clear() : Removes all the elements from list.