Fix the bugs in the application using the appropriate algorithmic techniques.

Writeup:

To sort

* Declare a variable and store the array size in it.
* Declare a temporary and a boolean variable (initialize as “true”).
* Use “while loop”, check the condition with the boolean variable and enter the loop.
* Then initialize boolean variable to “false”
* Use “for loop” to traverse through the array and check “if index value of 0 is greater than index value of 1” using “if statement”.
* If its greater then switch the values of two indexes and change the boolean variable to true.
* The values are sorted in ascending order.
* Print the sorted values using”for loop”.

To search

* Declare a variable and store the array size in it.
* Declare a variable and store the value to be stored entered by the user
* Declare two variables(left and right) and initialize them with array extreme index values.
* Declare a int variable(position) to -1 which is used to print if the value is not found in the array.
* Use “for loop” to traverse the array and check the two conditions using “if statement”(“arrayList.get(left) == key”,”arrayList.get(right) == key”) i.e., one condition searches the value from left of array(index 0) and the other the other condition searches the value from right of array(index final )
* The left index gets incremented on each iteration likewise The right index gets decremented on each iteration till the loop ends.
* If the value is found in the array, change position = -1 to respective index value and print value is found.
* If the value is not found, use “if statement” and check the condition(position = -1)then print the value is not found.