**Problem Statement**

You have been assigned a few tasks during the sprint planning. Solving the bugs raised by the testing team is one among them. You are given the boilerplate code and are asked to complete it by fixing the bugs.

**Algorithm**

1. Method searchExpenses(ArrayList<Integer> arrayList) with integer arrayList as parameter
2. Declare an integer variable leng and put the result of arrayList.size() into it
3. Declare 2 integer variables, f initialized as 0(denoting lowerbound), and e
4. Print “Enter the expense you need to search”
5. Read e
6. set mid = (f+leng)/2
7. Start a while loop with condition (f<=leng)
8. If (mid<e) then f = mid+1
9. Else if (mid == e) then print “Element is found at index mid”
10. Break
11. Else leng = mid-1
12. mid = (f+leng)/2;
13. If (f>leng) then print “Element not found”
14. Method sortExpenses(ArrayList<Integer> arrayList) with integer arrayList as parameter
15. Declare an integer variable arrlength and put the result of arrayList.size() into it
16. Start a for loop from i = 0 to i<arrlength-1
17. Declare an integer variable index and initialize it with the value of i
18. Start a for loop from j = i+1 to j<arrlength
19. If (j<index) then index = j
20. Declare an integer variable temp and put the value of index in it
21. Declare an integer variable index and put the value of i in it
22. Declare an integer variable i and put the value of temp in it
23. Print arrayList