Fix and bugs algo

Certainly! Here's an explanation of the algorithm implemented in the provided code:

- 1. The code begins by printing a welcome message to the user.
- 2. The 'optionsSelection()' method displays a menu of options to the user and takes their input to perform various operations.
- 3. The menu options are stored in the `arr` array, and the corresponding option numbers are stored in the `arr1` array.
- 4. The 'expenses' ArrayList is used to store the expenses entered by the user. Initially, it contains some predefined expenses.
- 5. The `optionsSelection()` method displays the menu options and takes the user's choice as input.
- 6. The user's choice is then matched with the menu option number in the `switch` statement. The corresponding operation is performed based on the selected option.
  - Option 1: It prints the list of saved expenses.
  - Option 2: It allows the user to add a new expense to the list.
- Option 3: It prompts the user to confirm the deletion of all expenses and clears the 'expenses' list if confirmed.
  - Option 4: It calls the `sortExpenses()` method to sort the expenses in ascending order.
  - Option 5: It calls the `searchExpenses()` method to search for a specific expense.
  - Option 6: It closes the application.
- 7. The `closeApp()` method is called when the user chooses to close the application. It simply prints a closing message.
- 8. The `searchExpenses()` method prompts the user to enter an expense value to search for. It uses the `Collections.binarySearch()` method to perform a binary search on the sorted `arrayList` of expenses and returns the index of the found expense. The result is then printed.

- 9. The `sortExpenses()` method uses the `Collections.sort()` method to sort the `arrayList` of expenses in ascending order. The sorted list is then printed.
- 10. After performing the selected operation, the `optionsSelection()` method is called again to display the menu options and continue the program flow.
- 11. The program continues to run until the user chooses to close the application.

Overall, the code provides a simple expense management system where the user can review, add, delete, sort, and search for expenses. The sorting is done using the `Collections.sort()` method, and the searching is performed using the `Collections.binarySearch()` method.