```
    1. Start
    2. Declare variables

         int choice

         int numbers[10]

    3. Display Main Menu

        1 –  Selection Sort

         2 – Insertion Sort

         3 – Bubble Sort

         4 – Exit

    4. Ask user to input a choice
    5. If input is not 1, 2, 3, or 4

       Display “Invalid choice! Press Enter to try again.”

       Go back to Main Menu

    6.  If user chose 1

       Input 10 numbers

       (If input is invalid, ask again)

Perform Selection Sort:

       •        Set i = 0

       •        Repeat while i < 4

       •        Set minIndex = i

       •        Set j = i + 1

       •        Repeat while j < 5

       •        If numbers[j] < numbers[minIndex]

                set minIndex = j
```

- Increase j
- Swap numbers[i] and numbers[minIndex]
- Increase i

Display sorted numbers

Press Enter

Return to Main Menu

7. If user chose 2

   Input 10 numbers

   (If input is invalid, ask again)

Perform Insertion Sort:

- Set i = 1
- Repeat while i < 10
- Set key = numbers[i]
- Set j = i - 1
- While j >= 0 AND numbers[j] > key
- Move numbers[j] to position j + 1
- Decrease j
- Place key at numbers[j + 1]
- Increase i

Display sorted numbers

Press Enter

Return to Main Menu

8. If user chose 3

   Input 10 numbers

```
        (If input is invalid, ask again)

    Perform Bubble Sort:

        •       Set i = 0

        •       Repeat while i < 4

        •       Set j = 0

        •       Repeat while j < 4 - i

        •       If numbers[j] > numbers[j + 1]

        Swap the two numbers

        •       Increase j

        •       Increase i

        Display sorted numbers

        Press Enter

        Return to Main Menu

     9. If user chose 4

        Display “Exiting program. Goodbye!”

    10. End
```