Assembly Language programming Project

Project Title: - "Sorting algorithms package"

Description: - User enters some unsorted signed numbers, then kit asks the user to choose suitable sorting algorithm, and either the sorting will be ascending or descending, then the kit should sort entered numbers and output them to screen.

Details: -

- Sorting algorithms that must to be implemented are <u>bubble sort</u> and <u>insertion sort</u>.
- Numbers should be **separated** by a **comma**.
- **Bonus:** choose a sorting algorithm from these to implement (<u>quick sort</u> – <u>merge sort</u>)

Example:

The input screen

Enter numbers that you want to sort:

6,-4,1,5,0,11,-100

For bubble-sort press 1, for insertion sort press 2:

1

For ascending press 1, for descending press 2:

1

Output will be

-100 ,-4 ,0,1,5,6,11

You will submit:-
- A complete flow chart for your program
- Procedures description that contains
    - Task accomplished by the procedure
    - List of input parameters and their usage
    - Description of any value calculated/returned by the procedure
    - Preconditions that must be satisfied before the procedure is called