Homework # 2

Write a program to apply one of the sorting algorithms: Qsort, MergeSort, InsertionSort or ShellSort.

According to your ID number you have to implement the algorithm, according the following formula:

Calculate the Category=ID%4 (the module of four on your ID number) and according to the Category, apply:

* Category == 0  Bubble sort
* Category == 1  Merge Sort
* Category == 2  Insertion Sort
* Category == 3  Quick Sort

Write a program to sort the array with collection of "spare parts" available in the AUBG Vehicles' Spare Parts Supermarket’s warehouse (use the developed for HW1 program), according to:

* Category == 0 sorts by name of the "spare part" (Use lexicographical order)
* Category == 1 sorts by price of the spare part
* Category == 2 sorts by available quantity
* Category == 3 sorts by warranty period.

**Delivery:**

**Electronic version: the all program files.**

**Hard copy: the source code of all program components, which were modified for the second homework.**