CS 677 - Analysis of Algorithm
Fall Semester
Homework 4 - Task 1 Code Description

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In the program for task 1, there are three functions:

- void *swap(float *x, float, *y)*
- void *bubbleSort_variant(float arr[], int n)*
- void *sortCoupltNP(float arr[], int n)*

1. void swap(float *x, float, *y)
This function swap two item inthe array with address of two items in the arrays.

2. void bubbleSort_variant(float arr[], int n)
This function sorts the array in increasing order based on the the absolute value of each items.

3. void sortCoupltNP(float arr[], int n)
This function go to the array derived from function *bubbleSort_variant*, find negative - positive couple and swap them if the positive one appear earlier in the array.

I also build a print array function with parameters: *void printArray(float arr[], int size)*

To comply my code, use command *g++ -o task1 hw4_task1.cpp*, and run the executed file by command *./task1* in the terminal.