

# CSCE 206 Spring2018 Lab: Assignment #5

Submission Deadline: 23:59, April 22, 2018, Sunday.

1. Follow the [submission guideline](#) to submit the assignment through eCampus.
2. Add comments to your code, including your name, UIN and the class section you are in with the block comments to the head of your code file.

## Question 1. Max Number (40 points)

Write your code to fill out a program so that it will accept two **double**-typed numbers and output the bigger one. The program below is using pointer method. Check professor's chapter8 slide for how to use pointer. Name your program file **Hw5\_q1\_code.c**.

Here is the program:

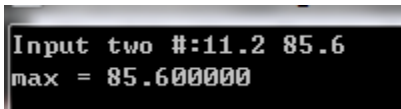
```
#include <stdio.h>

double *max(double *x, double *y)
{
    /* Filling with your own code*/
}

int main()
{
    /* Filling with your own code*/

    return 0;
}
```

. Exemplify:



```
Input two #:11.2 85.6
max = 85.600000
```

## Question 2. Sorting Strings (60 points)

Write your code to fill out a program so that it can sort predefined strings according to ascending order. Probably, you will use library function **strcmp** (string.h) when comparing one string with another so as to decide which one is bigger/smaller. The program below is using pointer method. Check professor's chapter8/chapter9 slides for how to use pointer array. Name your program file **Hw5\_q2\_code.c**.

Here is the program:

```
#include <stdio.h>

#include <string.h>

void sort(char *[], int);

int main()
{
    char *name[] = {"College Station", "Houston", "Dallas", "Austin", "San Antonio"};
    int i, n=5;

    sort(name,n);

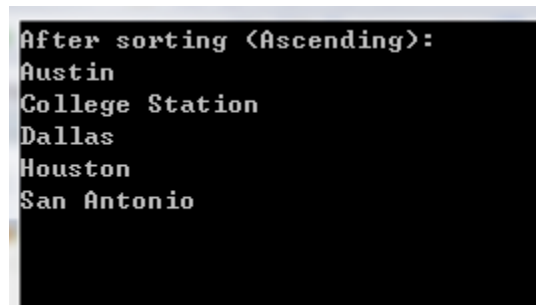
    printf("After sorting (Ascending): \n");
    for(i=0;i<=n-1;i++)
        printf("%s\n",name[i]);
    return 0;
}

void sort(char *name[], int n)
{
    char *temp;

    /*filling with your own code
    You may use strcmp library function (from string.h) for comparison between two
    strings.
    */

}
```

. Exemplify:



```
After sorting (Ascending):
Austin
College Station
Dallas
Houston
San Antonio
```