

# **Chapter 8 Homework**

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## **Bubble sort**

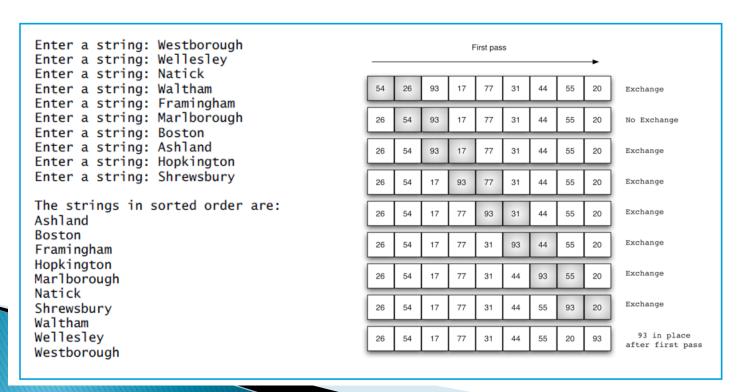


https://www.youtube.com/watch?v=lyZQPjUT5B4



## Problem 1

- Write a program that takes 10 strings(maximum length: 20), and prints the strings in alphabetic order.
- Use bubblesort algorithm to write your own function. (increasing order)
- Use "strcpy" and "strcmp" functions in "string" library.





#### Problem 2

- Write a program that takes 3 lines of English strings to a twodimension array, and count off each alphabets from input.
- Uppercase and lowercase letters should be counted as a same character.
- Store the totals for each letters in an array, and prints the values.

```
Enter three lines of text:

This program inputs three lines of text
and determines the number of occurrences
of each character in the three lines.

The total occurrences of each character:
a: 5
b: 1
c: 6
d: 2
e: 17
f: 3
g: 1
h: 7
i: 6
j: 0

This program inputs three lines of text
l: 2
and determines the number of occurrences
m: 3
o: 5
n: 8
o: 5
r: 10
c: 5
The total occurrences of each character:
p: 2
q: 0
t: 10
c: 6
t: 10
u: 3
f: 3
v: 0
y: 0
j: 0
z: 0
```



#### Problem 3

- Write a program that reads three lines of text and prints out the number of one-letter words, two-letter words, three-letter words, and so on to 10 ten-letter words.
- Use "strtok" and "strlen" functions in "string" library.

```
Enter three lines of text:
This program determines the length of each word in the input text. The input text here has words of several different lengths.

3 words of length 2
4 words of length 3
6 words of length 4
3 words of length 5
1 word of length 6
3 words of length 7
1 word of length 9
1 word of length 10
```



## Homework 07

▶ 제출 파일: "본인의학번\_HW07.zip"

ex) 본인의 학번이 2028123456일 경우 -> 2028123456\_HW07.zip

- 아래 내용을 하나로 압축한 zip file.
  - 1.c, ..., 3.c 각각의 문제에 대한 답안 소스파일.

- 1.png, ..., 3.png 각각의 문제에 대한 소스파일을 실행한 실행결과 캡쳐 이미지. (jpg 나 png 형식)

- ▶ BlackBoard(kulms.korea.ac.kr) → Assignments
- Due Date : 2018/05/08 23:59
- ▶ 형식에 맞지 않는 제출물은, 미제출로 처리됩니다.