

C++ Programming Assignment (#08)

Date: May 12, 2016

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Programming Projects

1. Write a function that determines if two strings are anagrams. The function should not be case sensitive and should disregard any punctuation or spaces. Two strings are anagrams if the letters can be rearranged to form each other. For example, "Eleven plus two" is an anagram of "Twelve plus one". Each string contains one "v", three "e's", two "l's", etc. Test your function with several strings that are anagrams and non-anagrams. You may use either the string class or a C-style string. **[Project 11, Chapter 9, Absolute C++ 5ed.]**

WORD	Rearrange the letters
DORMITORY	DIRTY ROOM
PRESBYTERIAN	BEST IN PRAYER
ASTRONOMER	MOON STARER
DESPERATION	A ROPE ENDS IT
THE EYES	THEY SEE
GEORGE BUSH	HE BUGS GORE
THE MORSE CODE	HERE COME DOTS
SLOT MACHINES	CASH LOST IN ME
ANIMOSITY	IS NO AMITY
ELECTION RESULTS	LIES LET'S RECOUNT
MOTHER-IN-LAW	WOMAN HITLER
SNOOZE ALARMS	ALAS NO MORE Z'S
A DECIMAL POINT	IM A DOT IN PLACE
THE EARTHQUAKES	THAT QUEER SHAKE
ELEVEN PLUS TWO	TWELVE PLUS ONE

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Sample dialogue :

Input the 1st sentence: **Dormitory**

Input the 2nd sentence: **Dirty room**

Yes! They are anagrams!!

Continue? (y/n) **y**

Input the 1st sentence: **Election results**

Input the 2nd sentence: **Lie - Let's recount**

No! They are not anagrams!!

Continue? (y/n) **n**

Thank you!!

2. Write a telephone directory program. For this program, you need to define a class `person` that has at least three member variables: `name`, `phoneNumber`, and `memo`.

Your program firstly asks how many people the user will input information for, then receives the data. The program can displays all data at a time or provides a menu for searching a specific person until the user wants to quit.

Sample dialogue:

For how many people you will input the information? **3**

Person #1:

Name: **Song Joong-ki**

Phone number: **010-1234-5678**

Memo: **Descendants of the Sun**

Person #2:

Name: **Kim Soo-hyun**

Phone number: **010-9876-5432**

Memo: **My Love from the Star**

Person #3:

Name: **Yoo Jae-seok**

Phone number: **051-510-5555**

Memo:

Menu:

1. Display all

2. Search one

3. Quit

Select> **1**



Name	Phone Number	Memo
Song Joong-ki	010-1234-5678	Descendants of the Sun
Kim Soo-hyun	010-9876-5432	My Love from the Star
Yoo Jae-seok	051-510-5555	

Menu:

1. Display all
 2. Search one
 3. Quit
- Select> **2**

Name for search? **Kim Soo-hyun**

Name	Phone Number	Memo
Kim Soo-hyun	010-9876-5432	My Love from the Star

Menu:

1. Display all
 2. Search one
 3. Quit
- Select> **3**

Thank you!!