



Announcements

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Announcements

Final Exam

Posted on: Sunday, December 11, 2016 5:06:30 PM EST

The final exam will be open book and curved.

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)**CP 22 Final - topics**

Posted on: Saturday, December 10, 2016 10:20:00 PM EST

The topics are:

1. Functions - Chapter 6.1 - 6.9, 6.12- 6.13
2. Arrays Chapter 7.1 - 7.9
3. Pointers Chapter 9.1 - 9.4
- 4.. Structures - Chapter 11.1-11.5
5. Classes - Chapter 13.1 - 13.9
6. Function templates Chapter 16.2
- 7.Overloading - Chapter 6.14, 14.5
8. Recursion - Chapter 19.1 -19.2
9. Reading and Writing Files - Chapter 5.11
10. Searching and Sorting Arrays - Chapter 8
11. Characters and Strings - Chapter 10.1 - 10.3

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)**CP 22 Test 2**

Posted on: Thursday, December 8, 2016 11:59:40 AM EST

I placed the test on Course Documents.

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)**Homework - Structures**

Posted on: Monday, December 5, 2016 8:47:09 AM EST

Create an employe struct with fields name, ID, hours worked and pay rate. Write a function to calculate total pay, which is equal to hours worked * pay rate. Write a program that asks the user for input, call function to calculate total pay. Display name, ID, hours worked and pay rate. Ask for data for 3 employees.

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)**Homework - Classes**

Posted on: Monday, December 5, 2016 8:37:16 AM EST

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Design a class called Perimeter. The class should store length and width. There should be a member function to print out the perimeter. = 2 * length + 2 * width.

Lab - Monday December 5

Posted on: Monday, December 5, 2016 7:53:29 AM EST

Please review test 3 and solutions on Course Documents.

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Lab on Wednesday November 30

Posted on: Wednesday, November 30, 2016 8:06:17 AM EST

Work on projects 6 and 7. Review for test tomorrow.

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Lab - Tuesday November 29

Posted on: Tuesday, November 29, 2016 8:03:55 AM EST

Work on project 6 and 7. Review for test on Thursday.

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

How do you create a project with Multiple files?

Posted on: Monday, November 28, 2016 8:53:44 AM EST

1. Go into Dev cpp
2. Click file, new, project, empty project, OK to create new project.
3. Highlight project, right click and hit add project.
4. For header file, save with .h
5. When you are ready to compile, highlight project and do compile.

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Creating a project with multiple files

Posted on: Monday, November 28, 2016 8:49:35 AM EST

Please see Course Documents - rectangle.cpp, rectangle.h, project 13-5.

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Lab - Monday November 28

Posted on: Monday, November 28, 2016 8:27:51 AM EST

Work on project 6(overloading) and project 7 (templates).

Please see slides 6.14 (overloading) and 16.2 (templates).

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Lab - Thursday November 23

Posted on: Wednesday, November 23, 2016 8:01:27 AM EST

Review output of recursive function (see Course Documents). - see how output is generated.

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Try to think of it as a stack of function calls - message(3), message(2), message(1), message(0).

Example of Recursive Function

Posted on: Tuesday, November 22, 2016 8:56:25 AM EST

Please see example of recursive function in Course Documents.

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Test on December 1

Posted on: Tuesday, November 22, 2016 8:21:30 AM EST

The test will cover:

1. Structures - Chapter 11 Sections 1-8
2. Classes - Chapter 13 Sections 1-4, 7-10, 12
3. Overloading functions - Chapter 6 Section 14
4. Function Templates - Chapter 16 Section 2
5. Recursion - Chapter 19 Sections 1, 2

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Lab Tuesday November 22

Posted on: Tuesday, November 22, 2016 8:05:06 AM EST

Write a template for a function that swaps two variables. For example, x = 7, y=14 are passed to the function and x=14, y=7 are returned.

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Lab - Monday November 21

Posted on: Monday, November 21, 2016 7:59:21 AM EST

Write a program that uses overloaded functions.

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Lab - Wednesday November 16

Posted on: Wednesday, November 16, 2016 8:03:03 AM EST

1. Complete Monday's lab
2. Work on project # 4 and # 5.

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Last Thursday lab - short answer questions on structures

Posted on: Tuesday, November 15, 2016 7:06:20 PM EST

The solutions can be found on Course Documents.

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Homework - Tuesday November 15

Posted on: Tuesday, November 15, 2016 8:51:37 AM EST

Read sections 13.7 - 13.9. Constructors and Destructors

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Work on yesterday's lab.

Work on project # 4.

Homework

Posted on: Monday, November 14, 2016 8:27:07 AM EST

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Read sections 13.1 - 13.4

Review slides 1-26.

Finish today's lab.

Complete project # 4.

Project 4

Posted on: Sunday, November 13, 2016 8:58:46 PM EST

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Project 4 should do all of the following:

Write a program that stores the following data about a soccer player in a structure:

Player's Name

Player's Number

Points Scored by a Player

The program should keep an array of 12 of these structures. Each element is for a different player on the team. When the program runs it should ask the user to enter the data for each player. It should then show a table that lists each player's number, name and points scored. The program should also calculate and display the total points earned by the team. The number and name of the player who has earned the most points should also be displayed.

Lab Monday November 14

Posted on: Sunday, November 13, 2016 8:35:12 PM EST

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Design a class called Date. The class should store a date in three integers: month, day and year. There should be member functions to print the date in the following forms:

12/25/2014

December 25, 2014

25 December 2014

Demonstrate the class by writing a complete program implementing it.

Input Validation: Do not accept values for the day greater than 31 or less than 1. Do not accept values for the month greater than 12 or less than 1.

Lab Wednesday November 9

Posted on: Wednesday, November 9, 2016 8:07:55 AM EST

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Create an employee struct with fields name, ID, hours worked and pay rate. Write a function to calculate total pay, which is equal to hours worked * pay rate. Write a program that asks the user for input, call function to calculate total pay. Display name, ID, hours worked and pay rate. Ask for data for 3 employees.

Lab - Tuesday November 8

Posted on: Tuesday, November 8, 2016 8:03:56 AM EST

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Please work on yesterday's lab and/or the project.

Homework November 7

Posted on: Monday, November 7, 2016 8:53:11 AM EST

Read Sections 11.3 - 11.4 in textbook.

Review Chapter 11 slides 5 - 20.

Do Lab.

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Lab - November 7

Posted on: Monday, November 7, 2016 8:22:00 AM EST

Create a student file using struct containing:

Variable Type

studentId integer

name string

yearInSchool integer

gpa double

Ask the user to type in information for 3 students. Display all information at end of program.

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Lab - November 2

Posted on: Wednesday, November 2, 2016 8:01:45 AM EDT

Write a program which uses a function called double_it, which doubles a variable whose address is passed to it.

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Review Sheet - test Thursday

Posted on: Tuesday, November 1, 2016 9:21:37 PM EDT

I posted a Review Sheet on Course Documents.

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Solution to password program - today's lab

Posted on: Tuesday, November 1, 2016 5:31:00 PM EDT

Please see Zerong's solution in Course Documents.. I modified it because I read in cplusplus.com that islower returns a non zero value when you have a lowercase character.

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Test on Thursday November 3

Posted on: Tuesday, November 1, 2016 8:19:36 AM EDT

The test will have 6 short answers, 1 question on what is the output, and 2 coding examples.

The test will cover the following:

1. Files- Chapter 5 Section 11
2. Functions - Chapter 6 - Sections 1 - 5, 13

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

3. Arrays Chapter 7 - Sections 1-9
4. Searching and Sorting Arrays-Sections 1 , 3
5. Chapter 9 - Sections 1 - 5
6. Chapter 10 - Sections 1-4

Lab November 1

Posted on: Monday, October 31, 2016 11:46:00 PM EDT

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Imagine you are developing a software package that requires users to enter their own passwords. Your software requires that users' passwords meet the following criteria:

1. The password should be at least six characters long and at the most 10 characters.
2. The password should contain at least one uppercase and at least one lowercase letter.
3. The password should be at least one digit.

Write a program that asks for a password and then verifies if it meets the stated criteria. If it doesn't, the program should should display a message telling the user why.

Lab - October 31

Posted on: Monday, October 31, 2016 7:48:00 AM EDT

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Create a file using Notepad that has 5 unsorted numbers in 5 different lines. Write a program to read the file, sort the numbers using selection sort and display the sorted list. Display the sum of the numbers.

Method of Evaluation

Posted on: Saturday, October 29, 2016 9:19:51 PM EDT

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Your grade will be calculated in the following way:

Final Exam - 35 %

Tests (25 % each) - drop lowest grade out of 3 tests - September 29, November 3 and sometime during the last week of November.

Programming Assignments, Attendance and Participation - 15%

Lab October 27

Posted on: Thursday, October 27, 2016 7:44:00 AM EDT

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

1. Create a file using Notepad that has 5 unsorted numbers in 5 different lines. Write a program to read the file, sort the numbers using a bubble sort, display the sorted numbers and display the sum.
2. Write a program to read a string using cin, and then using getline. What is the difference? A possible string is "My name is John Smith".

Test on November 3

Posted on: Wednesday, October 26, 2016 8:25:58 AM EDT

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

There will be a test on November 3. It will cover files, functions, arrays, searching and sorting arrays, pointers and strings. There will be 10 short answer questions and 3 short coding exercises.

Please review slides on Course Content.

Lab October 26

Posted on: Wednesday, October 26, 2016 7:49:42 AM EDT

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Write a program that creates an output file called Intro.txt

Sample file

My name is John Smith.

My gender is male.

My major is computer science.

Lab October 20

Posted on: Thursday, October 20, 2016 7:54:36 AM EDT

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Write a program that lets the user enter a charge account number. The program should determine if the number is valid by checking for it in the following list:

5658845 4520125 7895122 8777541 8451277 1302850

8080152 4562555 5552012 5050552 7825877 1250255

1005231 6545231 3852055 7576651 7881200 4581002

The list of numbers should be initialized in a single dimension array. A simple linear search should be used to locate the number entered by the user. If the user enters a number that is in the array, the program should display a message saying that the number is valid. If the user enters a number that is not in the array, the program should display a message indicating that the number is invalid.

Lab October 19

Posted on: Tuesday, October 18, 2016 11:07:00 PM EDT

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Write a program to initialize an array (see below) and print out the value of array [3] [3].

int array [4][4] = {1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16}

Lab October 13

Posted on: Thursday, October 13, 2016 7:49:37 AM EDT

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

1. Write a program to do a linear search, which is a searching algorithm Use this array 18,47,8,17,63,45.

Linear Search

Step 1 - Does the item match the value I am looking for?

Step 2 - If it does match, you have found your item.

Step 3 - If it does not match advance and repeat the process

Step 4 - Reached the end of the list and still no value found? Return -1 to signify you have not found the value.

2. How would your program change if the array had duplicates? Use this array 18,54,43,2, 18,19, 63.

Lab October 6

Posted on: Thursday, October 6, 2016 8:00:00 AM EDT

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Write a program that calls a function double_it that takes the address of an int and doubles the value pointed to it. Test it by passing an argument n, which is initialized to 15. Print out the value of n before and after the function is called. Solution can be found on course documents.

Write a program with a function named `convert_temp`. The function takes the address of a variable of type `double` and applies Centigrade to Fahrenheit conversion. Test the function.

Hint: $F = (C * 1.8) + 32.00$

Lab October 5

Posted on: Wednesday, October 5, 2016 7:43:28 AM EDT

Start working on Project 2.

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Lab September 28

Posted on: Wednesday, September 28, 2016 7:39:41 AM EDT

Exercises:

1. Write a program to calculate factorial(4 factorial = $4 \times 3 \times 2 \times 1$):

Sample

Input N ; 4

4 factorial is 24

2. Write a recursive function to calculate factorial:
3. Which method is more efficient?

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Lab September 27

Posted on: Tuesday, September 27, 2016 7:49:00 AM EDT

Exercises - Please put comments in your programs:

1. Ask the user for a Celsius temperature. Print out the Fahrenheit temperature. The conversion formula is:

$Fahrenheit = (Celsius * 1.8) + 32$

Do not initialize variables to integer.

Try to format your Fahrenheit temperature - to 3 decimal places. Use `setw` and `setprecision`.

2. Simulated Clock - starting at 00:00(hours:minutes) print out all minutes for 2 hours. You must use a nested for loop.

Sample output :

Hours:Minutes

00:00

00:01

00:02

00:03

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Test on Thursday Sept 29

Posted on: Friday, September 23, 2016 11:59:00 AM EDT

The test will cover the topics listed below. You will have to write short answers and programming examples.

Please sit in alternate seats when you arrive so we do not lose time. Please arrive on time.

Kinds of questions(see questions at end of chapter in your textbook):

1. Short answer
2. Fill in the blank

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

3. Algorithm Workbench
4. True or False
5. Find the Error(s)
6. Predict the Results
7. Multiple Choice
8. Programming Example(s)

Please review material and test understanding by writing short programs.

Topics:

1. cin
2. cout
3. variable types/sizes
4. ASCII values / characters
5. casting will not be on test
6. decision statements
7. loops
8. nested loops
9. recursion

Submitting Assignments

Posted on: Friday, September 23, 2016 11:59:00 AM EDT

Please have a comment on the top with your name and date on all assignments.

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)

Triangle Picture 20 rows - lab in class today

Posted on: Monday, September 19, 2016 8:00:00 PM EDT

I posted a solution.

First row, first column has an *.

Second row, first column has an *.

Second row, second column has an *.

Third row, first column has an *

Third row , second column has an *

Third row, third column has an *.

Posted by: Howard London
Posted to: 2016 Fall Term (1)
C Programming II CP 2200
02[59051] (Kingsborough CC)



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