**CSIS 1175 (Winter 2024)**

**Lab 8/Class Work**

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1. Chapter 8 Programming example pages 493 - 499.
2. Chapter 8 Programming Exercises 1, 2, 5 and 6 pages 509 - 510.

1. Write an application that creates and returns a one-dimensional array containing all the elements in the two-dimensional array. Store the values in a row major format. For testing purposes, you may do a compile-time initialization of a 12 x 5 two-dimensional array. Display both the two-dimensional and the one-dimensional array. Be sure that the values in the array are number aligned.

2. Write an application that will let you keep a check on how well 6 salesmen are performing selling 3 different products. You should use a two-dimensional array to solve the problem. Allow the user to input any number of sales amounts. Do a compile-time initialization of the salesperson’s names and product list. Produce a report by salesman, showing the total sales per product. 5. Write a program that allows the user to enter any number of names. Your prompt can inform the user to input their first name followed by a space and last name. Order the names in ascending order and display the results with the last name listed first, followed by a comma and then the first name. If a middle initial is entered, it should follow the first name. Your solution should also take into consideration that some users may only enter their last name (one name).

6. Write an application that creates a two-dimensional array. Allow the user to input the size of the array (number of rows and number of columns). Fill the array with random numbers between 0 and 100. Search the array for the largest value. Display the array values, numbers aligned, and the indexes where the largest value is stored.

1. Chapter 8 Programming exercise 2 sample input/output.

Sales Registry

1. Jamaal Avery

2. Amanda Davidson

3. Bob Murphey

4. Jim Saylor

5. Choo Wang

6. Lonna Young

Sales are for which salesman? 2

Products

1. Tablets

2. Phones

3. Watches

Sales are for which product? 2

What was the sales amount? 1000

Are there more sales? (y/n)y

Sales Registry

1. Jamaal Avery

2. Amanda Davidson

3. Bob Murphey

4. Jim Saylor

5. Choo Wang

6. Lonna Young

Sales are for which salesman? 1

Products

1. Tablets

2. Phones

3. Watches

Sales are for which product? 1

What was the sales amount? 2300

Are there more sales? (y/n)y

Sales Registry

1. Jamaal Avery

2. Amanda Davidson

3. Bob Murphey

4. Jim Saylor

5. Choo Wang

6. Lonna Young

Sales are for which salesman? 4

Products

1. Tablets

2. Phones

3. Watches

Sales are for which product? 3

What was the sales amount? 3400

Are there more sales? (y/n)n

Sales Summary

Salesman Name Tablets Phones Watches

Jamaal Avery 2,300.00 0.00 0.00

Amanda Davidson 0.00 1,000.00 0.00

Bob Murphey 0.00 0.00 0.00

Jim Saylor 0.00 0.00 3,400.00

Choo Wang 0.00 0.00 0.00

Lonna Young 0.00 0.00 0.00

1. Chapter 8 Programming exercise 5 sample input/output.

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\*\*\* You will be prompted to enter as many names \*\*\*

\*\*\* as you would like. The names will be sorted \*\*\*

\*\*\* and displayed in ascending order. \*\*\*

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Press any key when you are ready to begin...

Enter a name

(First Name-followed by a space then the middle initial and Last Name)...

To Exit, press the Enter key

David D.

Enter a name

(First Name-followed by a space then the middle initial and Last Name)...

To Exit, press the Enter key

John J.

Enter a name

(First Name-followed by a space then the middle initial and Last Name)...

To Exit, press the Enter key

Kim Lu

Enter a name

(First Name-followed by a space then the middle initial and Last Name)...

To Exit, press the Enter key

Emiley E.

Enter a name

(First Name-followed by a space then the middle initial and Last Name)...

To Exit, press the Enter key

Sarah kim

Enter a name

(First Name-followed by a space then the middle initial and Last Name)...

To Exit, press the Enter key

Sorted Names

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D., David

E., Emiley

J., John

kim, Sarah

Lu, Kim