# Lab #10: Review Midterm Codes

**Getting started**

Download lab10 materials from D2L (including this instruction and three starter codes)

Enter Mimir IDE.

Change into the cse220 directory.

Create a new directory called lab10.

Change into the new directory.

Upload the starter codes to Mimir IDE, save it in /home/(your\_username)/cse220/lab10/

Implement the programs below in your lab10 directory.

**Question 2: No indexing**

Read and rewrite the following function find\_max, which finds the maximum value from the n integer elements of the array a, with pointers. No square brackets [] should appear within your codes.

Text

Description automatically generated

We provide a starter code (which includes an example input {6,2,7,1}) to help you compile and debug your code. If your code is right, it should be able to output the following result:

Text

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**Question 4: String**

Write the function strlow in order to change all the letters of string a to the corresponding lower cases. a has n elements.

void strlow(char a[], int n)

For example, if a[] = "AbcDe", n = 5, the result would be "abcde".

We provide a starter code (which includes the above example input) to help you compile and debug your code. If your code is right, it should be able to output the following result:

**Text

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**Question 5: Function**

Write the following function squared\_euclidean to calculate the **squared Euclidean distance** of two arrays a and b, of which the size is n.

int squared\_euclidean(int a[], int b[], int n)

If the first array a is {a1, a2, a3, ..., an}, the second array b is {b1, b2, b3, ..., bn}, then their squared Euclidean distance is:

(a1 - b1)2+ (a2 - b2)2+ (a3 - b3)2+ ... + (an-bn)2

For example, if a = {1, 2, 3}, b = {4, 5, 6}, their squared Euclidean distance would be:

(1 - 4)2 + (2 - 5)2+ (3 - 6)2 = 9 + 9 + 9 = 27

We provide a starter code (which includes the above example input) to help you compile and debug your code. If your code is right, it should be able to output the following result:

**A picture containing graphical user interface, text

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