

SE185: Problem Solving in Software Engineering

Quiz #1 (100 points)

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Answer the following questions and make a pdf file that includes the **source code, sample inputs, and outputs**. You must submit the **pdf file and all of the .c files** on Canvas for full credit. Do not forget to add your group partner name on the pdf file and the source codes.

- (50 points)** Write a complete c program to find the area code, exchange code, and the user number from any phone number (i.e., 10 digits) entered by the user. [hints: assume the common phone number format (3 digits area code)-(3 digits exchange code)-(4 digits user number)]

Inputs and outputs format:

```
Please enter the 10 digits phone number: 5152946323

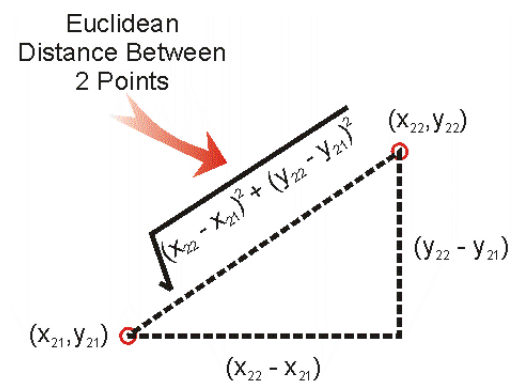
The area code is: 515
The exchange code is: 294
The user number is: 6323
```

```
AdamJ@Laptop-Of-Gods /cygdrive/d/quiz01
$ ./quiz1
Please enter the 10 digits phone number: 5152946323
The area code is: 515
The exchange code is: 294
The user number is: 6323
```

- (50 points)** Write a complete c program that print the Euclidian distance between the school and the following students:

- Mike located at x=22.05 and y=85.10
- Mary located at x=43.25 and y=9.80
- Gary located at x=2.55 and y=72.86
- Logan located at x=15.15 and y =40.40

Given that the school is located at x=15.55 and y=55.15



Inputs and outputs format:

```
The E distance for Mike is: 30.647227  
The E distance for Mary is: 53.140498  
The E distance for Gary is: 21.969162  
The E distance for Logan is: 14.755423
```

```
AdamJ@Laptop-Of-Gods /cygdrive/d/quiz01  
$ ./quiz1  
The E distance for Mike is: 30.647224  
The E distance for Mary is: 53.140499  
The E distance for Gary is: 21.969162  
The E distance for Logan is: 14.755424
```