Assignment #7, CSE 205, 45 Points
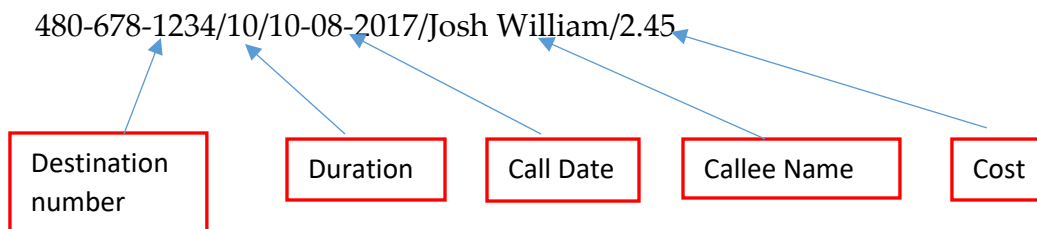
Date : Saturday, October 28th , 2017, at 11:59pm.

Important: This is an individual assignment. Please do not collaborate.

Reading: Review lecture material and examples posted in the class website related to file reading, file writing, and sorting

Description: You will be developing a phone record analysis program as described below. Your program reads phone call information from a text file name "phoneCalls.txt". Each record in the file has the following format

480-678-1234/10/10-08-2017/Josh William/2.45

| Destination number | Duration | Call Date | Callee Name | Cost |

Program reads record at a time from the file and generates an array list of phone call objects. The phone call object has the destination phone number, duration, call date, callee name (person who called by the caller), and the cost of the call. You can add required methods phone call object based on your design.

Once the object is created, it will be placed in an array list called phone calls. Then, your program can perform following operations

A) Search a call based on the destination number
B) Display the longest call information
C) Display the shortest call information
D) Sort the phone calls array list based on the call duration and display calls in the sorted order (display the destination phone number and the duration)
E) Prepare a phone bill and store the phone bill in the "phone bill.txt" file. Format of the "phone_bills.txt" is given below.
F) Exit the program

phone_bills.txt

Destination Number	Duration (m)	Cost ($)
480-678-1234	10	2.50
602-578-1000	12	3.15

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<similarly other records>

Total: $