Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

CECS 277

Lab Chapter 15\_3: Queues

1) Write a program called PriorityQueueRunner that uses the Person class below. Notice that this class implements Comparable<Person>. The Person class is on the code page.

public class Person implements Comparable<Person>

{

private String firstName;

private String lastName;

public Person(String firstName, String lastName)

{

this.firstName = firstName;

this.lastName = lastName;

}

public String getFirstName() { return firstName; }

public String getLastName() { return lastName; }

public String toString()

{

return "Name: " + firstName + " " + lastName;

}

public int compareTo(Person p)

{

String pname1 = firstName + lastName;

String pname2 = p.firstName + p.lastName;

return pname1.compareTo(pname2);

}

}

Use this class to create Person objects for each of the names below, and add them to a PriorityQueue<Person> object.

Iterate through the Priority queue and print each Person object.

Next iterate through the Priority queue by polling it and printing the Person objects that are returned.

Are Person objects returned in sequence?

Sam Smith

Charlie Black

Betty Brown

Jessica Stewart

John Friday

Frank Foley