

Project 4: Venue Sort



Project 4: Venue Sort

- This project is an exercise in
 - Using C++ strings.
 - Operator overloading.
 - Text File Input

Operator Overloading

- Modify the Venue class from the Ticket Printer project by adding a < operator.
- http://www.csee.usf.edu/~turnerr/Object Oriented Design/Downloads/ 2016 02 19 In Class/
- If two venues have different zip codes, consider the one with the smaller zip code smaller.
- If two venues have equal zip codes, consider the one whose name comes first alphabetically as smaller.
 - < operator for class string
- Let the < operator for Venue implement these rules.

Text File Input

- Read a text file with information about venues.
- Create a Venue object for each venue in the file.
- Store the addresses of the Venue objects in an array of Venue*
- Handle a variable number of venues in the file.
 - Maximum of 100.
- A sample input file is available in the Downloads area of the class web site.
 - You can use this file for testing, but you program should work with any such file with any number of venues, up to the max of 100.

Program Flow

- Prompt the user for filename.
- Read the file and create array of Venue*
- Output the venues to the screen as read.
- Sort the array into increasing order, using the < operator for class Venue.
 - Be sure to compare the Venue objects, not the pointers.
 - Sort the pointers.
- Output the venues to the screen as sorted.

Sample Input File

Carol Morsani Hall

1010 North W.C. MacInnes Place

Tampa

FL

33602

Tampa Theatre

711 N Franklin Street

Tampa

FL

33602

Midflorida Credit Union Amphitheatre

4802 N US Highway 301

Tampa

FL

33610

Amalie Arena

401 Channelside Dr

Tampa

FL

33602

The Tampa Improv

1600 E 8th Ave

Tampa

FL

33605

Skipper's Smokehouse

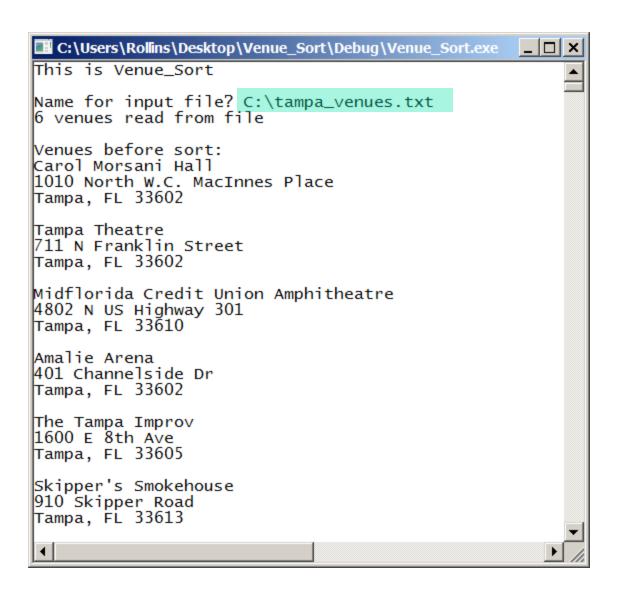
910 Skipper Road

Tampa

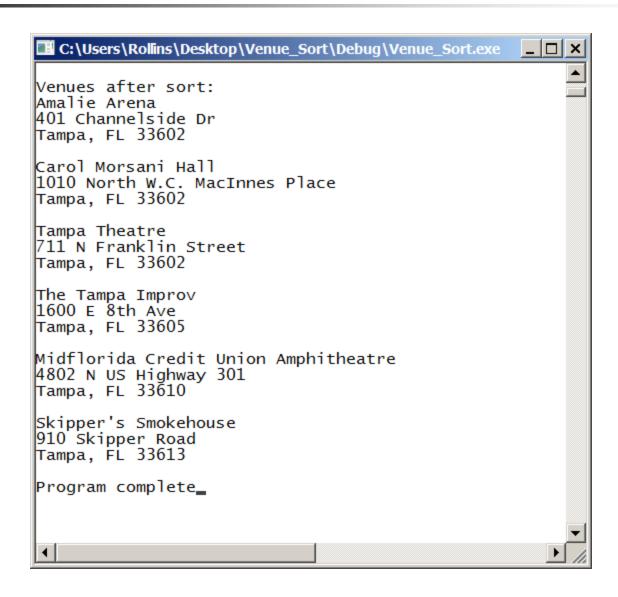
FL

33613

Sample Run



Sample Run -- Continued





Development Environment

- You may develop your program on any system you like.
- But you should test the finished program on Circe.
 - That's where we will grade it.
- The same source files should compile and run on either Windows or Linux.

Ground Rules

- You may work with one other person.
 - OK to work alone if you prefer.
- If you do work as a pair
 - Work together!
 - Both members are expected to contribute.
 - Submit a single program.
 - Both members should understand the program in detail.
- Do not share your code with other students.
 - Before or after submitting the project.
 - It is OK to discuss the project.
- Do not copy any other student's work.
 - Don't look at anyone else's program.
 - Don't let anyone look at your program.



Ground Rules

Except for code posted on the class web site

- Do not copy code from the Internet
 - or any other source.
- Write your own code.

Submission

- Project is due by 11:59 PM, Thursday night, March 10
- Deliverables:
 - Use Canvas Assignments to submit your program.
 - Source code only.
 - Zip the source files for submission.
 - Put your source files into a folder
 - Use the Windows "Send to Compressed Folder" command.
- If you work with another student, include both names in the Canvas submission comments.
 - Other student should submit just a comment including both names.

End of Presentation