CMSC 335

Project 2

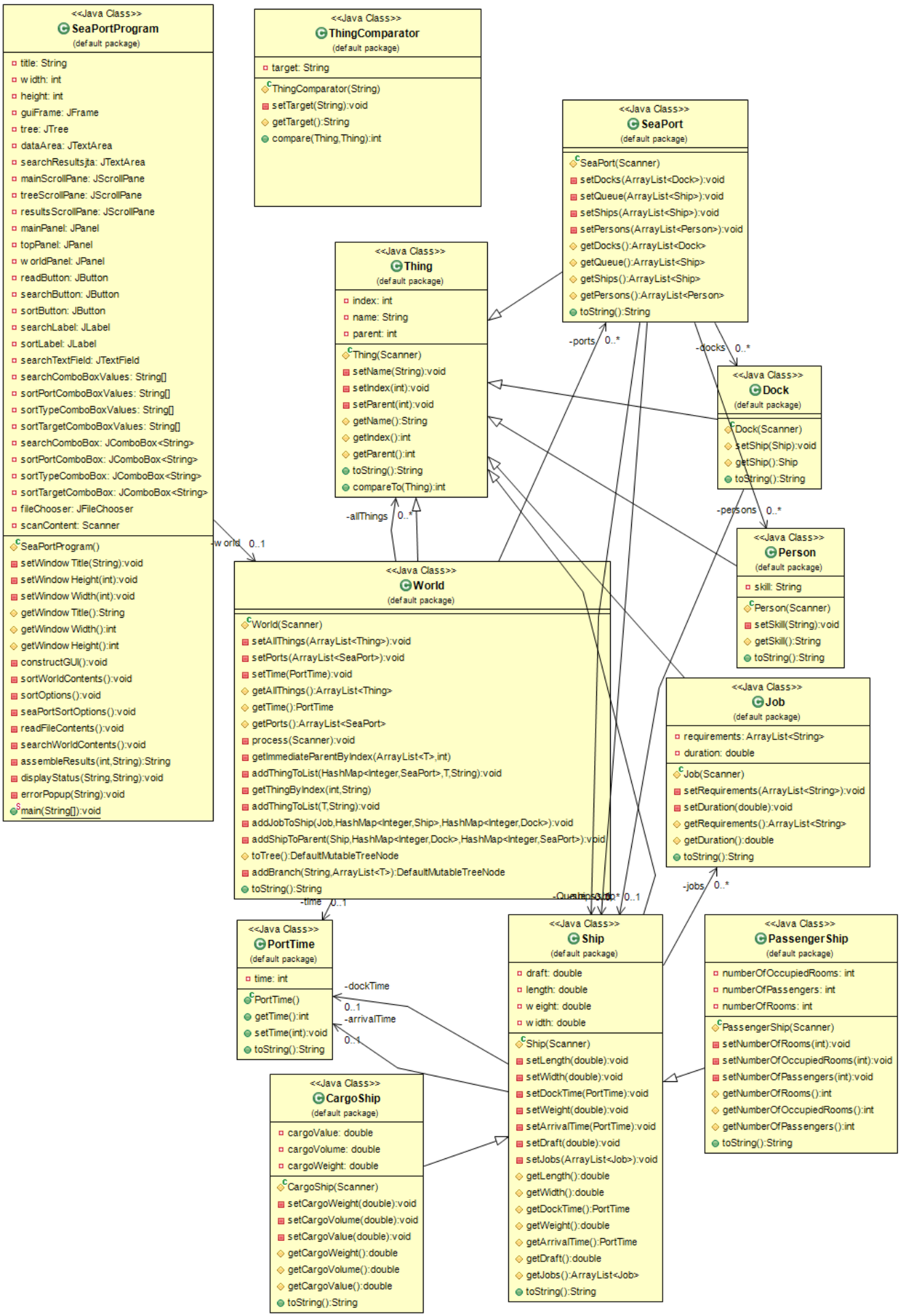
Sea Port Program

Shafro Batyrov

10/14/2018

Shafro Batyrov

UML Diagram:



Shafro Batyrov

Design

This SeaPortProgram consists of many classes and methods that work together as a whole to read input files and display information in a clear and organized GUI.

- The portTime was not utilized in this project.
- One private class field, named allThings, was created to hold an ArrayList of Things stored in new World objects. I added this class to make it easier to retrieve objects during user searches and provide a complete list of all types of objects as they appear in the file.
- A new class named ThingComparator was created to sort Thing objects.

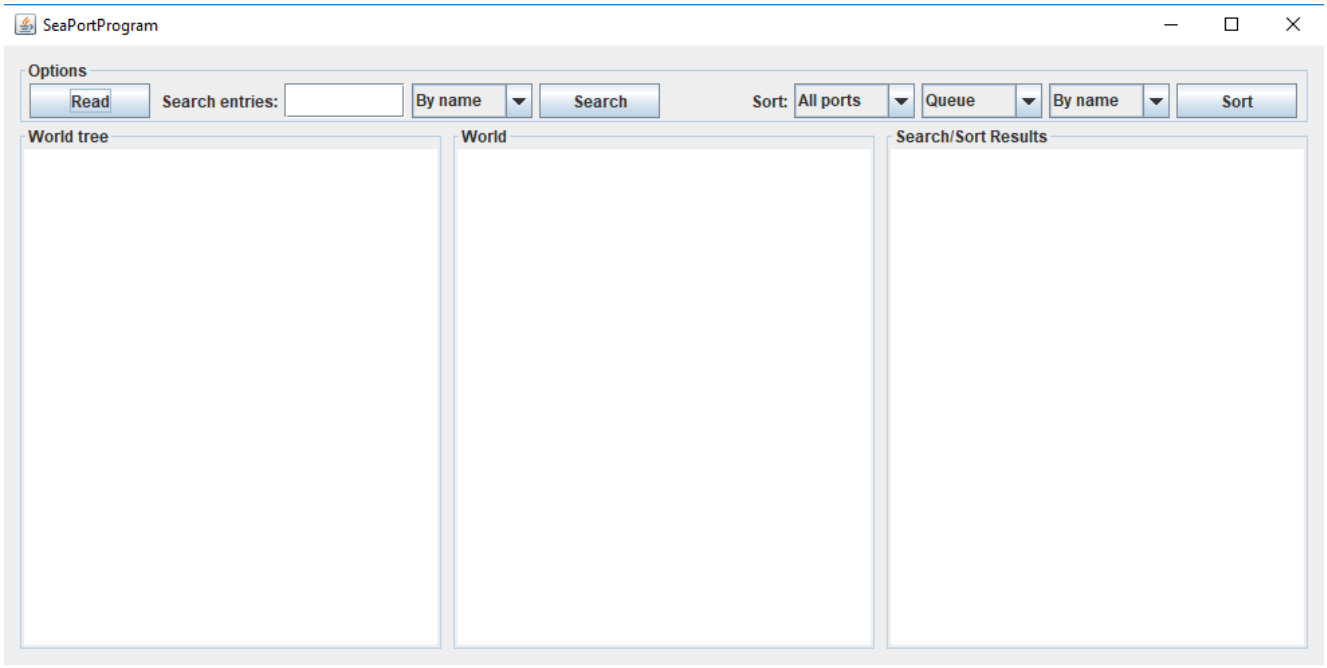
User's Guide

1. Open Command Prompt
2. Change the directory to where these files are saved (i.e cd desktop)
3. Type in “javac SeaPortProgram.java”
4. Type in “java SeaPortProgram”
5. When the GUI pops up, click “Read” button and select the sample data file. (entry is case sensitive and should be spelled correctly. Nontext files will generate an error).

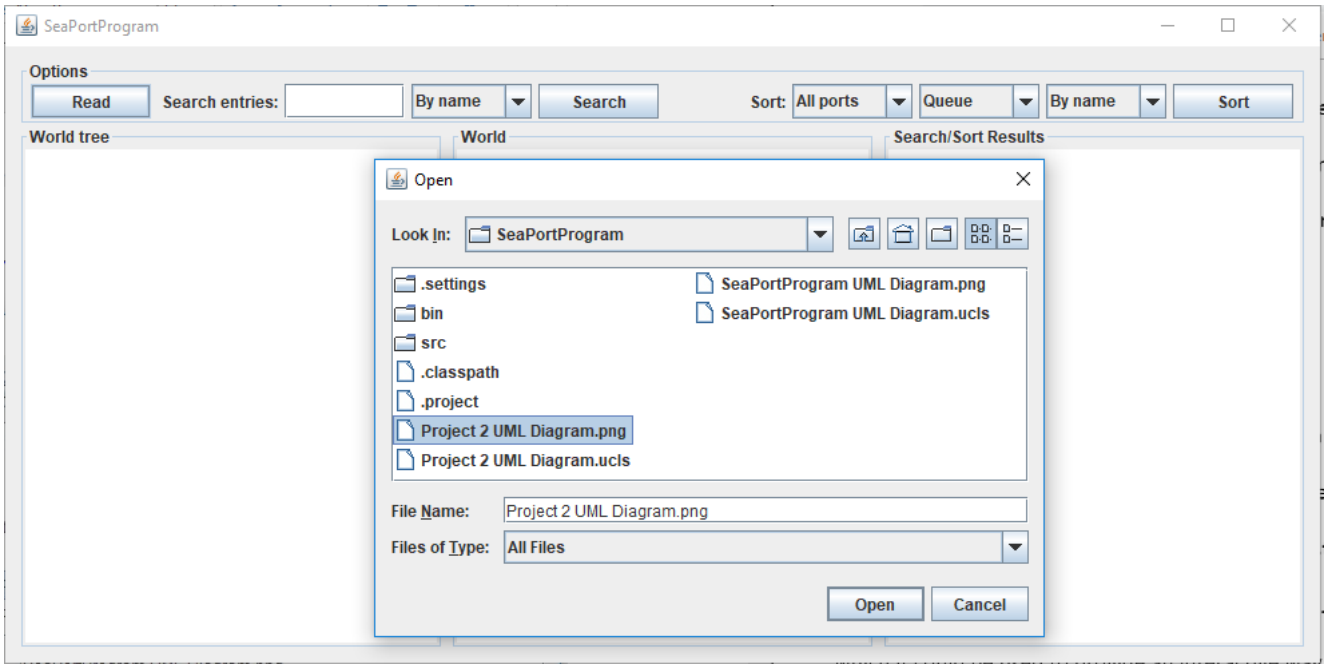
Test Plan

Shafro Batyrov

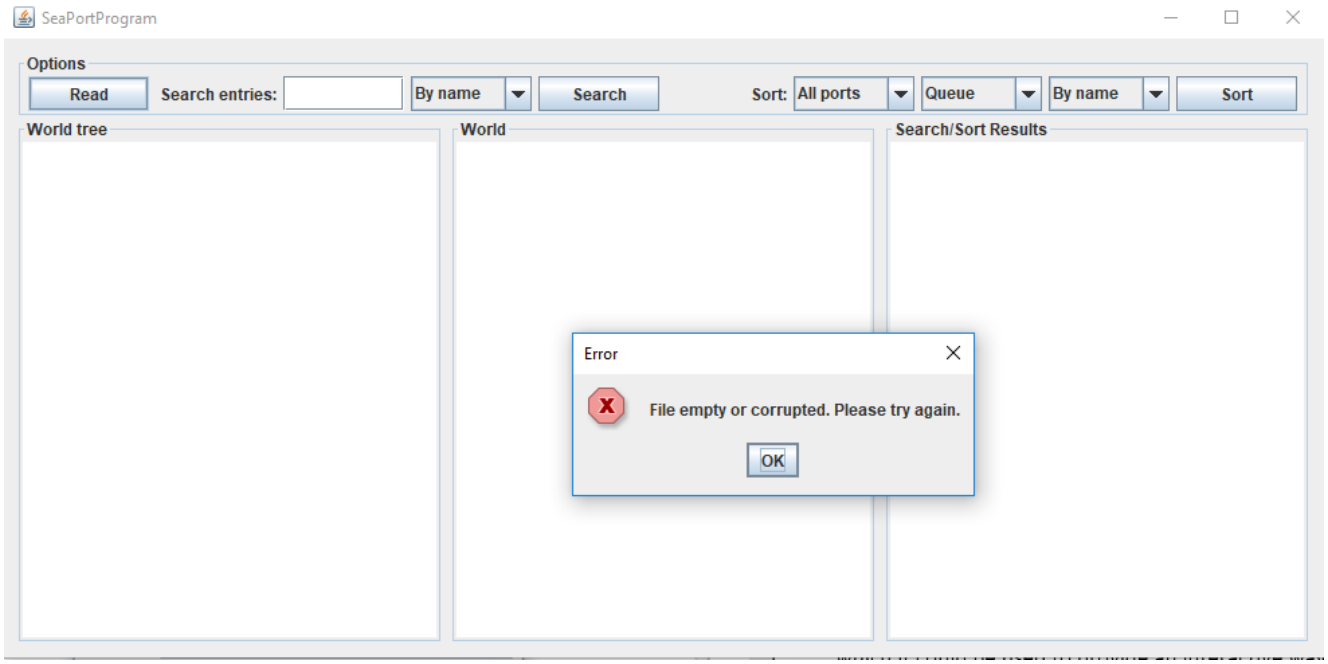
Running the Program: expecting it to compile and generate a GUI: Success



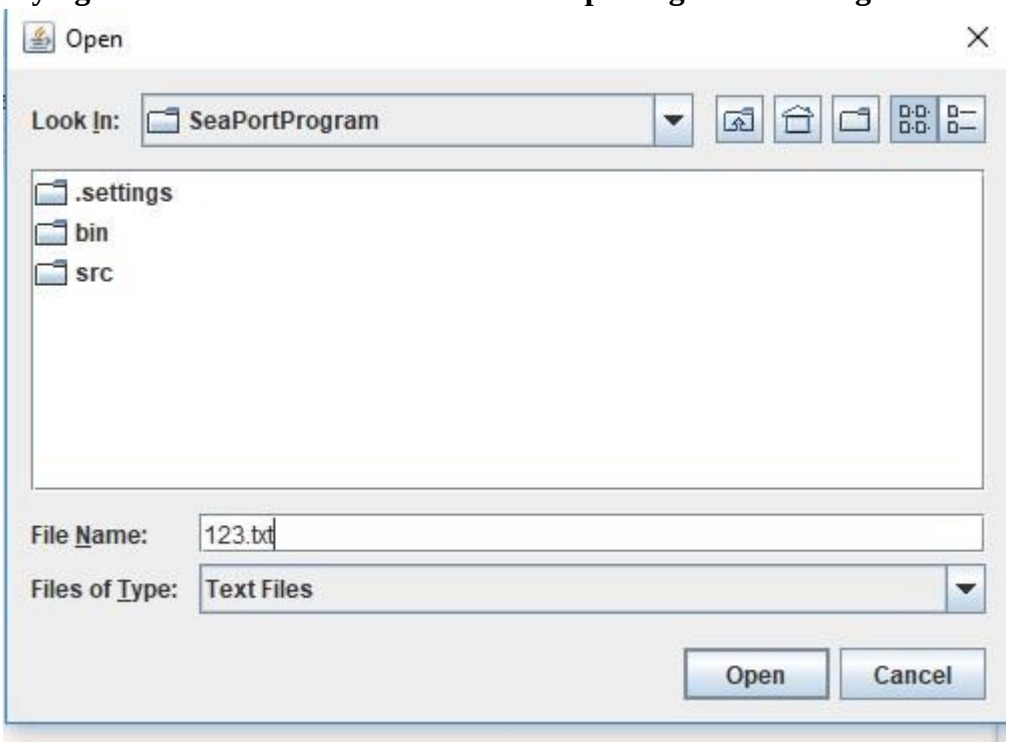
Trying to open a non text file: expecting to run into a compilation error: Success

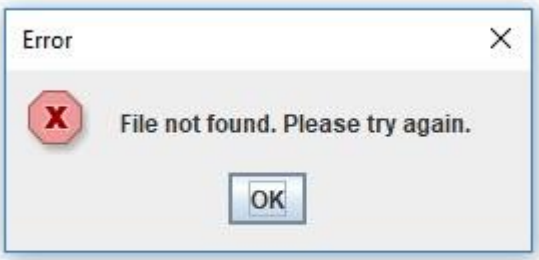


Shafro Batyrov

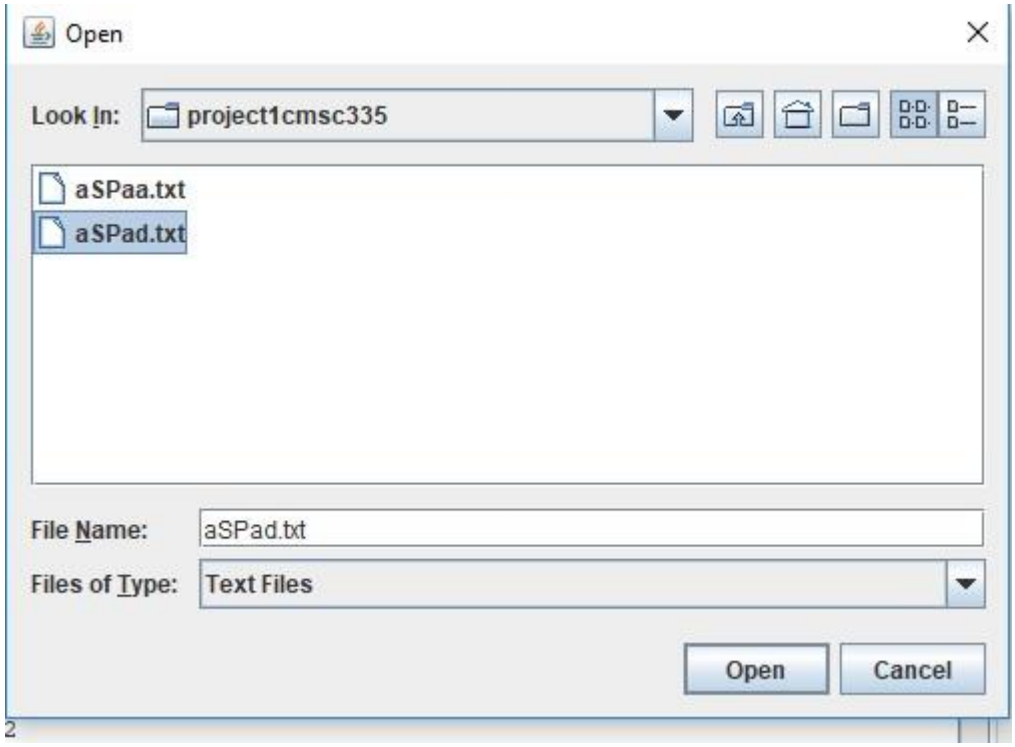


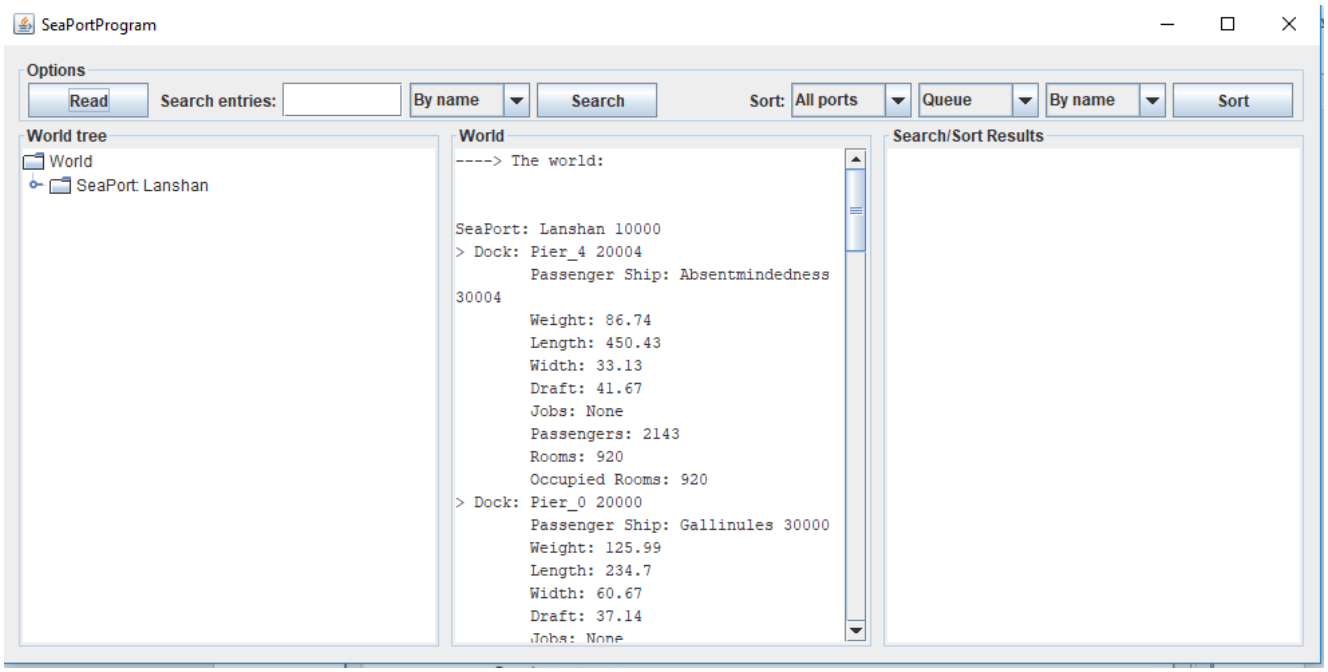
Trying to select a file that does not exist: expecting error message: Success



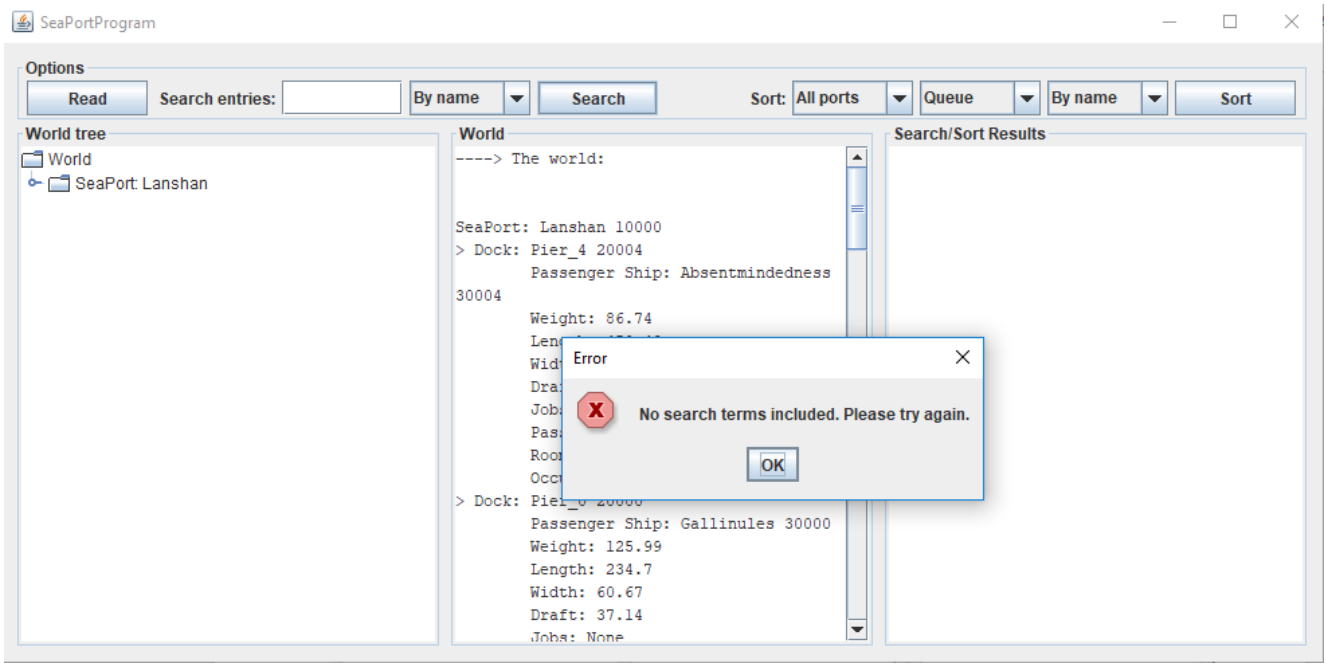


Choosing the Sample File: expecting to route dropdown menu to my desktop and successfully select aSPaa.txt and generate a World Tree: Success

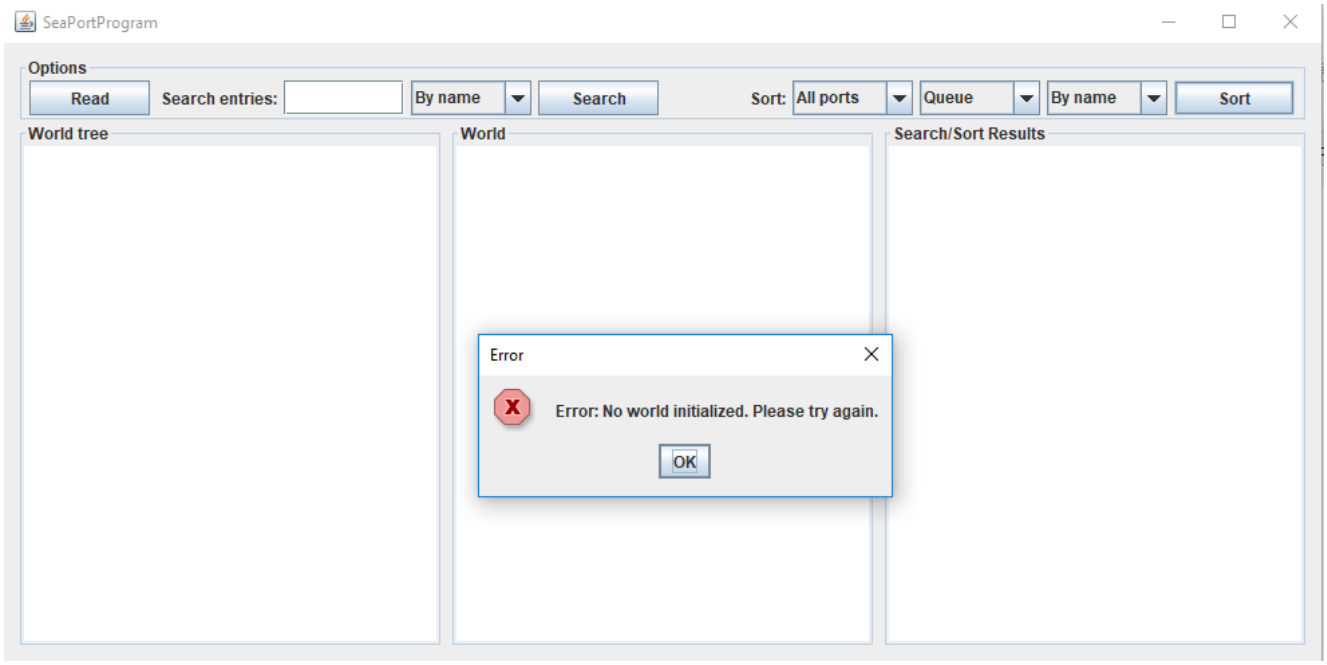




Searching empty parameters: expecting an error message: Success

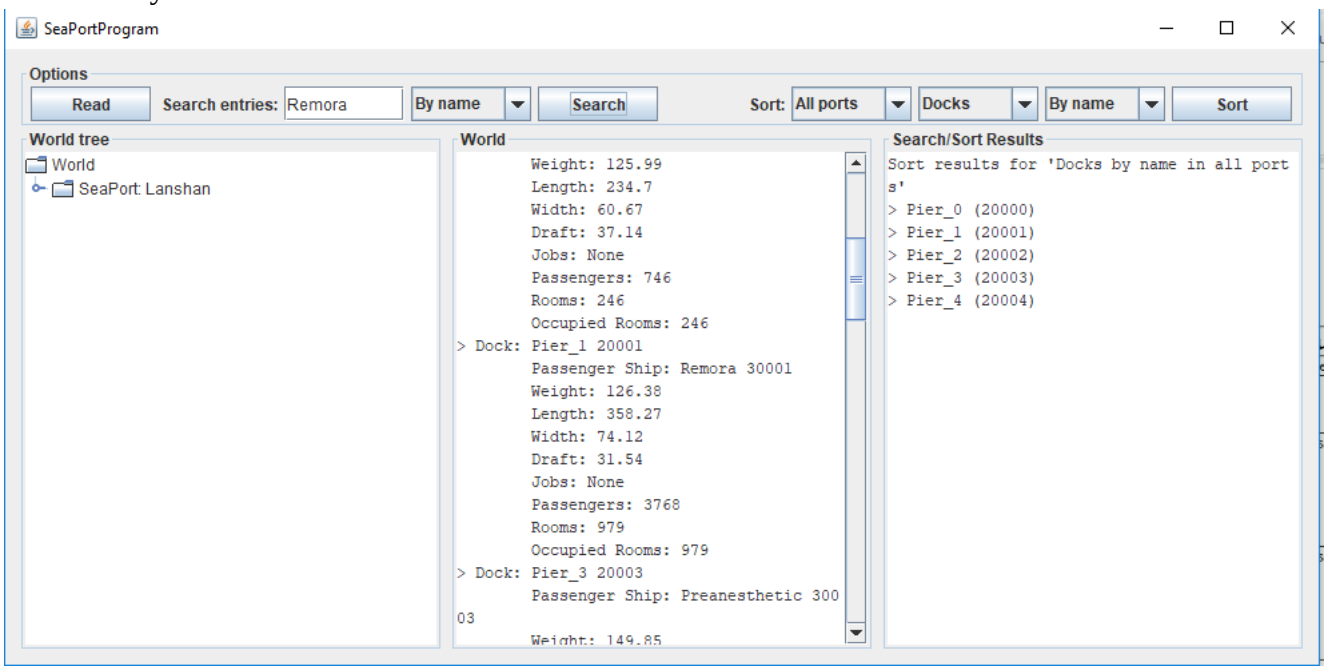


Sorting empty parameters: expecting an error message: Success

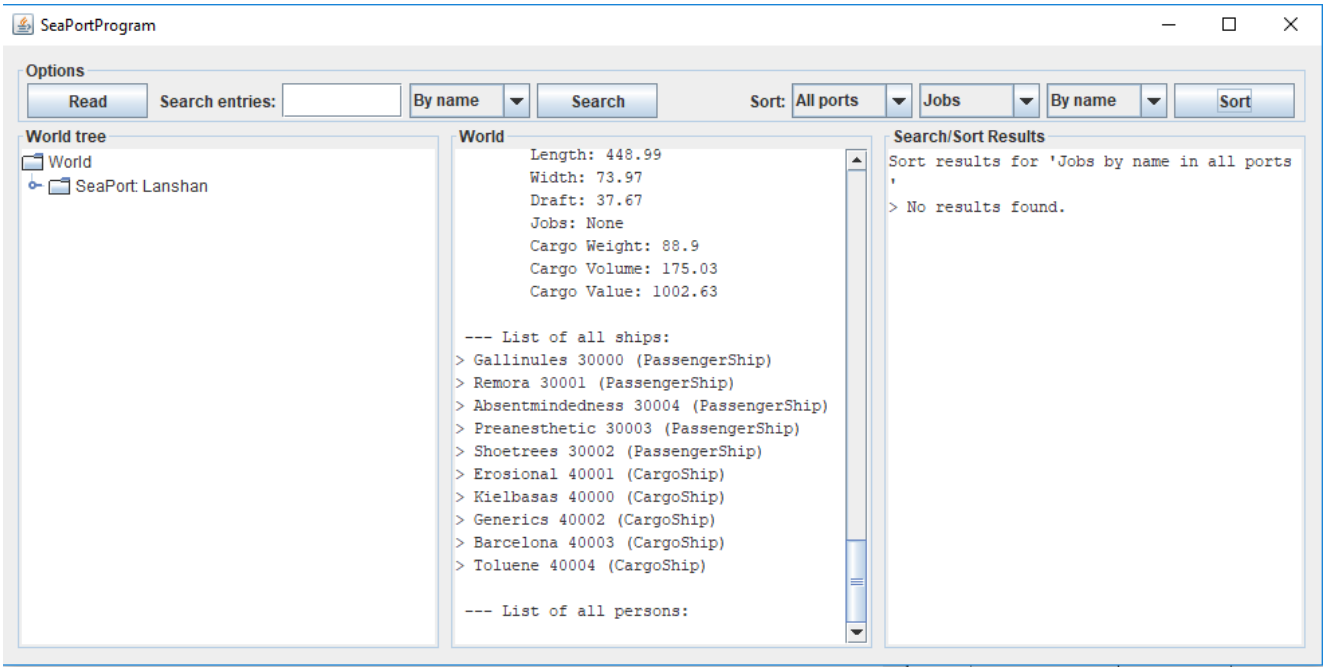


Doing a name search for ‘Remora’: expecting Pier_0 - Pier_4 to appear in the Search/Sort Results: Success

Shafro Batyrov



Sorting All Ports, Jobs, By Name: expecting no results to be found: Success



Sorting All Ports, Persons, By Name: expecting sort results

> Archie (50003)

> Betsy (50004)

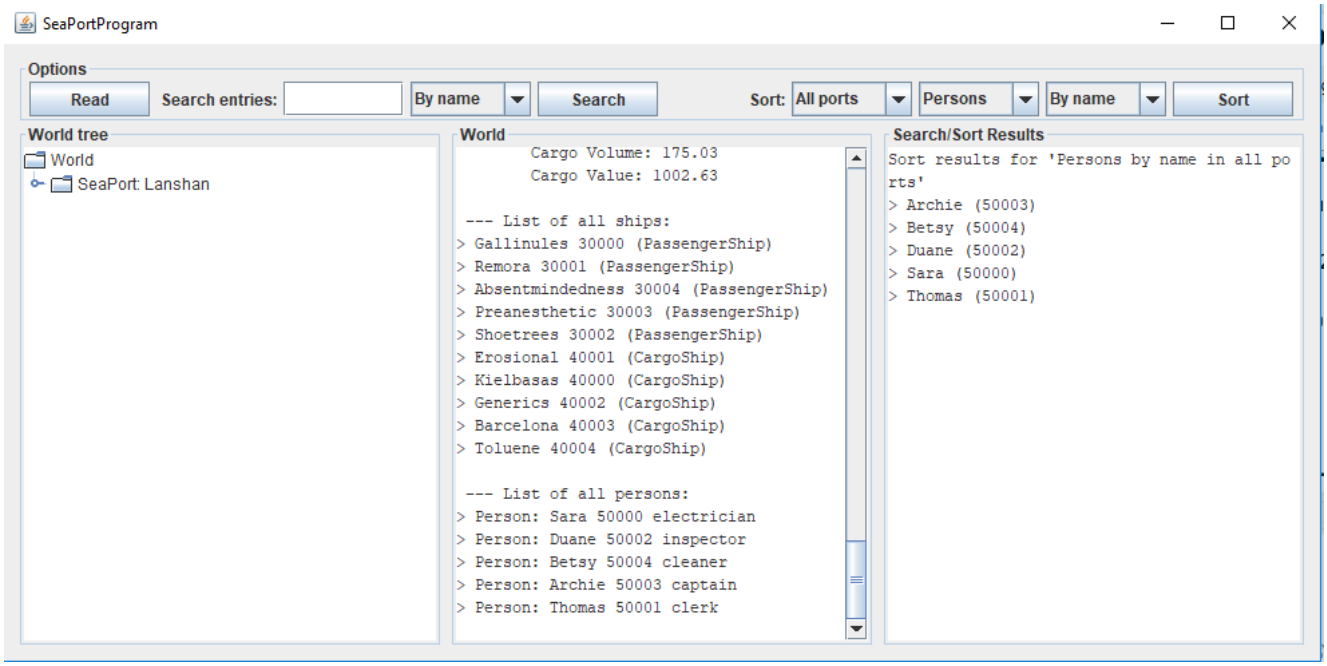
> Duane (50002)

> Sara (50000)

> Thomas (50001)

Shafro Batyrov

to be found: Success



Sorting All Ports, Docks, By Name: expecting sort results

> Pier_0 (20000)

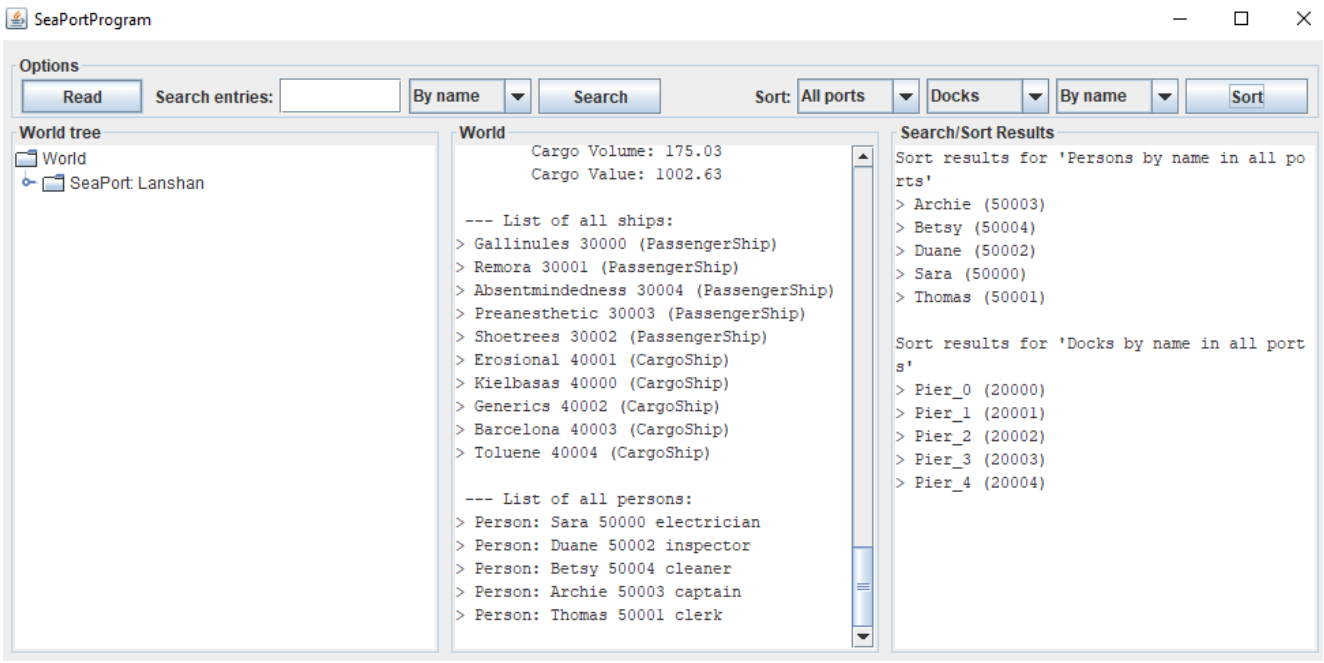
> Pier_1 (20001)

> Pier_2 (20002)

> Pier_3 (20003)

> Pier_4 (20004)

to be found: Success



Using Input File Aspad.txt and Sorting by Mexico_City, Queue, By Weight: expecting results

> Reachers (58.57)

> Foliages (76.78)

> Ogler (90.5)

> Hickory (109.21)

> Baggages (113.31)

> Disorientated (115.23)

> Prolog (120.22)

> Unmoored (122.53)

> Cowboys (123.36)

> Perpendicular (125.78)

> Horsetail (127.36)

> Fishlines (127.53)

> Emasculate (133.78)

> Fiancee (140.72)

> Instincts (159.04)

> Obnoxiously (166.56)

> Cantonment (176.58)

> Rumps (188.24)

> Misstep (192.48)

> Welcoming (205.78)

> Highborn (206.62)

> Ambassadorial (208.69)

> Coterminous (216.28)

> Recelebrated (224.0)

> Encrust (225.6)

> Incorrigible (228.59)

> Forger (230.02)

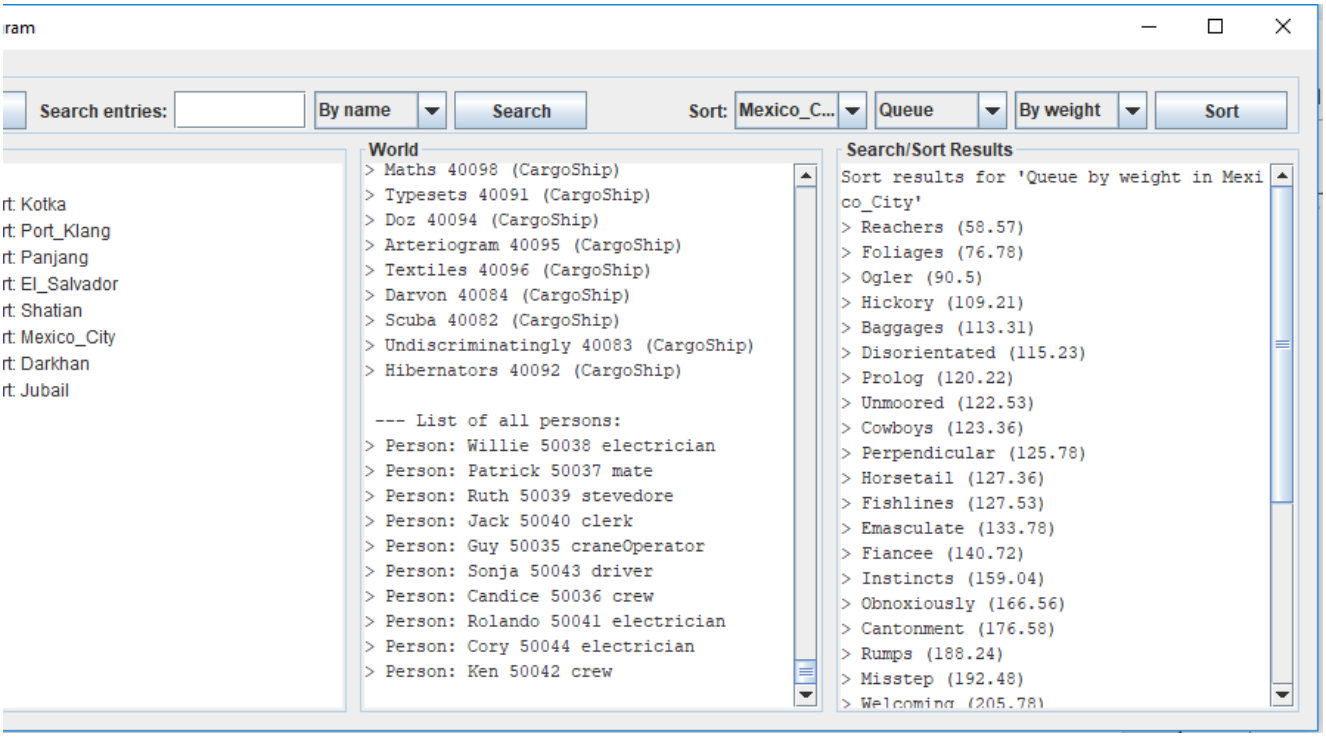
Shafro Batyrov

> Restuffs (237.94)

> Saskatchewan (239.98)

> Wrongful (244.83)

to be found: Success



Sorting by Darkhan, Queue, By Draft: expecting results

> Confided (15.35)

> Jellied (15.75)

> Overate (16.95)

> Strews (17.02)

> Refracturing (18.52)

> Ensue (18.89)

> Integer (20.9)

> Informality (24.03)

> Oriented (24.14)

> Potentiation (26.28)

> Indefeasibly (26.32)

> Vugs (27.02)

Shafro Batyrov

> Aflame (28.15)

> Monism (28.53)

> Accidie (30.47)

> Liquidation (31.43)

> Desiccating (33.56)

> Reassumes (36.23)

> Dragropes (36.84)

> Chevrolets (37.22)

> Clabber (37.61)

> Diorama (38.4)

> Cardamon (39.46)

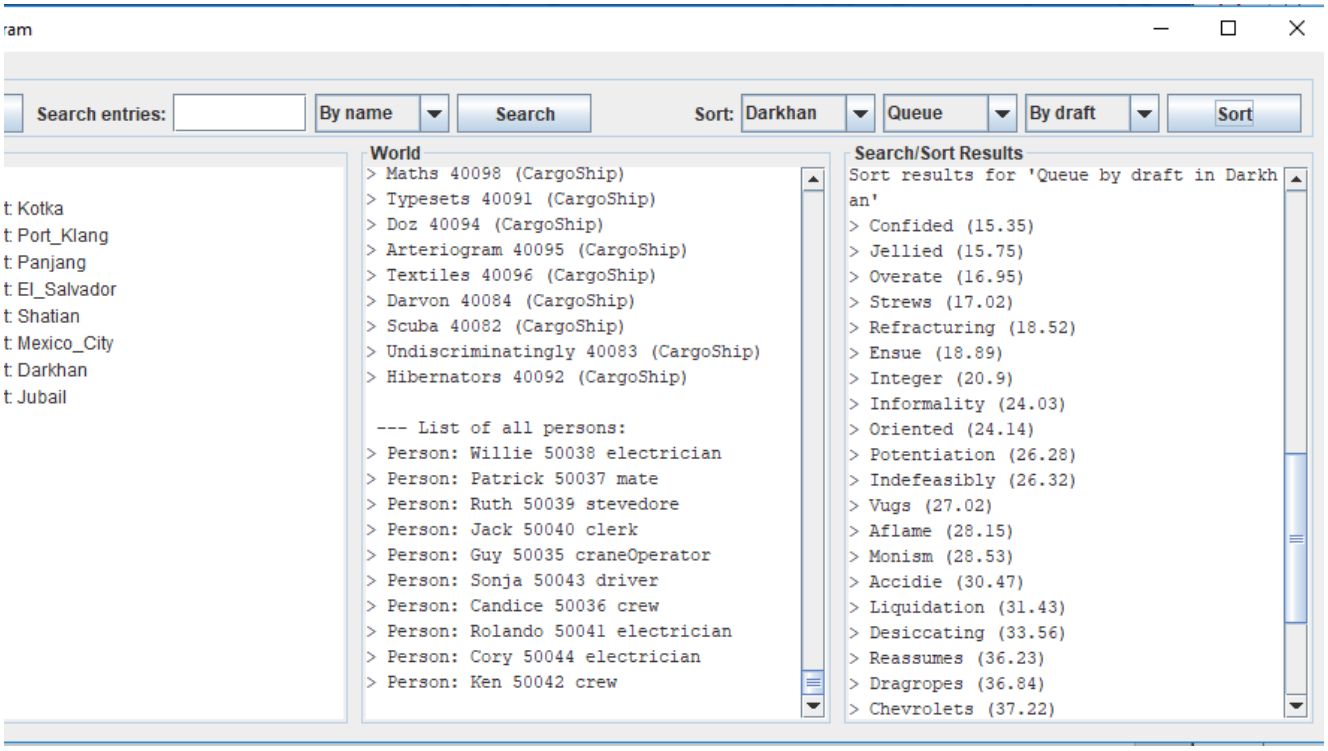
> Umbras (39.81)

> Unsurely (40.04)

> Quoted (42.48)

> Accessorily (42.78)

to be found: Success



Shafro Batyrov

Sorting All Ports, Persons, By Name: expecting results

> Aaron (50077)

> Adrienne (50059)

> Amber (50047)

> Annie (50004)

> Arthur (50061)

> Austin (50030)

> Becky (50069)

> Bernard (50051)

> Blanche (50031)

> Bobbie (50049)

> Brad (50020)

> Brendan (50068)

> Caleb (50066)

> Candice (50036)

> Charlene (50062)

> Charlotte (50015)

> Chris (50003)

> Connie (50024)

> Constance (50006)

> Cory (50044)

> Craig (50065)

> Crystal (50053)

> Dave (50064)

> Donnie (50021)

> Elsa (50081)

> Enrique (50057)

Shafro Batyrov

> Everett (50060)

> Gabriel (50070)

> Gayle (50007)

> Grace (50073)

> Gregg (50013)

> Guy (50035)

> Jack (50040)

> Jack (50028)

> Janis (50048)

> Jay (50050)

> Jean (50046)

> Jermaine (50045)

> Jessie (50032)

> Jody (50026)

> Joe (50023)

> Joel (50000)

> Jordan (50078)

> Julia (50072)

> June (50009)

> Kayla (50019)

> Kelvin (50054)

> Ken (50042)

> Laura (50010)

> Laurence (50052)

> Lonnie (50008)

> Lorenzo (50018)

> Lynn (50056)

Shafro Batyrov

> Lynn (50017)

> Mack (50055)

> Mark (50005)

> Marsha (50034)

> Matthew (50011)

> Melanie (50079)

> Micheal (50076)

> Michele (50002)

> Milton (50022)

> Morris (50025)

> Pamela (50075)

> Patrick (50037)

> Randy (50063)

> Rex (50027)

> Roger (50074)

> Rolando (50041)

> Ronnie (50058)

> Rosemary (50033)

> Ruth (50039)

> Shannon (50001)

> Shawna (50080)

> Sheldon (50012)

> Sonja (50043)

> Stacy (50067)

> Stacy (50029)

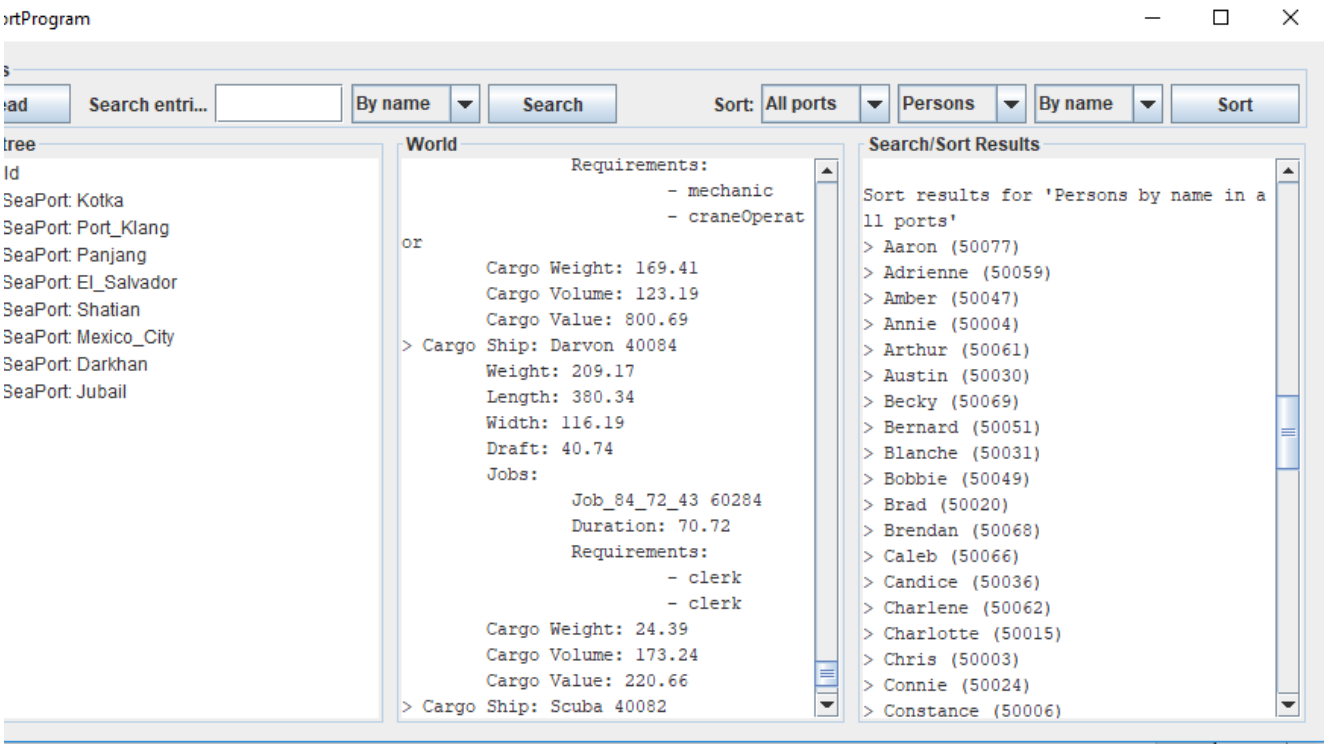
> Tim (50016)

> Tonya (50071)

Shafro Batyrov
> Willie (50038)

> Zachary (50014)

to be found: Success



Lessons Learned -

This project took me out of my comfort zone, in the sense that I was not too familiar with the many facets of JTree implementation. I wanted to use JTree because I thought it would be more user friendly and easy to read. With this in mind, I did a lot of research beyond what was available to me in my class readings. I feel that I truly learned a great deal regarding JTrees and hope to implement that knowledge in the near future in other endeavors.

On to Project 3!