

File Creation Lab MBS CS



You have finished the analysis and exercise questions in chapter 1 of the MBS CS through set 3, p.13.

Lab Objectives:

- familiarity with the MBS CS
- File I/O
- selection/iteration (for fault-tolerance – i.e., recover nicely from data-entry mistakes)
- String and numeric comparisons
- String conversion to numeric types

Write an application which will enable the user to create a data file to be used with the MBS CS.

Your application should do the following:

- prompt the user as to whether the environment is bounded or unbounded
- prompt the user for the size of the environment
- prompt the user for Fish locations for as many fish as she wishes
- prompt the user for the name of the file to create
- your application should be idiot-proof – if the user enters any “bad” data (data other than what you are asking for), your program should recover and re-prompt for the information
 - e.g., incorrect fish location based on what they gave as the bounds for the environment
 - e.g., typed “a” when you asked for “1”
- your application should be modularized
- test your application by using your data file with the MBS CS
- test your application by having someone else run your application and then use the file with the MBS CS