CS 150 Lecture 13 Exercises

Complete each of the exercises below and upload to Canvas before the deadline.

A. Output String Streams

**Output string stream** classes are used when you need to mix numeric and text formatting. Write a function taking a **double** monetary value as input, and returning a dollar formatted C++ **string**. If you provide an input of **1234**, the output should be the string "**$ 1,234.00"**. Show me the output and your code below.

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| *Copy and paste a screenshot of the program tests.* |

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| *Copy and paste a screenshot of the source code.* |

B. Input String Streams

Complete the **list()** function, which is passed a string like **list("alice.txt 40 50")**. The function:

* Attempts to open the filename passed as the first word.
* If it cannot, it prints **"Cannot open filename"** and returns **false**.
* If the starting line number is larger than the ending line number, then the function prints **"Invalid start or end position: "** along with the argument and then returns **false**.
* If the file is opened and the starting line number is not larger than the ending line number, then the function reads the lines specified in the file (**40** through **50** inclusive in this case) and prints those on the console.
* Assume that line numbers start at **1** (not **0**)
* Print the line number, in a field **4** wide, followed by **". "** and the line.
* If successful it returns **true**.

Show me your program running as well as the code for the **list()** function.

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| *Copy and paste a screenshot of the list tests.* |

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| *Copy and paste a screenshot of the source code for the list function* |