CSC431 Introduction to AI Robotics

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Step #5--Aftermath of a Trip to Japan

You just got back from a wonderful vacation in Japan.

Unfortunately, your Visa bill just arrived as well. It shows how much

you spent in US Dollars, but you only know how much you spent in

Japanese Yen. What will you do? What will you do?

One solution is to copy the program money.c

into your home directory and write a function called exhange which

will convert the amount of money spent in yen to dollars. The main

program money.c has a fixed value for the amount of yen spent. In this

step you should add your function to the money.c file and make sure that

it is properly called by the main function that is already there.

Step #6--Discover How Much You REALLY Spent

Now your mission is to change the program money.c so that it

reads in the amount of dollars spent and the exchange rate from the

screen. Again, you should check the program using various inputs.

Step #7 -- Printing out numbers in English

Copy the file checkwriter.h to your directory. In this file

are two functions for you to use to write out some numbers in English. The

functions are called writeOnes() and writeTens(). Please look at the files

and the comments there to see exactly how to use them.

First, write a program that asks the user for a number and then prints out

that number in English using these functions. Your program should be able to

handle numbers in the hundreds.

Don't forget to include the #include statement (with "s, not <>s) to add the

checkwriter.h functions to your code.

Step #8 -- Writing out a check

Now you will expand the code you wrote for step 7 into a larger check printing

program (just make sure it doesn't bounce). The purpose of this part of the

lab is to give you practice in using printf() to print out nicely formatted

text. It should also give you yet more practice in using functions.

Your program must again ask the user for an amount and then print out that

amount in words. This time, however, you need to print out the amount in a

carefully formatted check style.

For example, if I had entered 754 dollars as the amount, your program must

print out something like the following:

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Seymour Cray Check # 123456

Chippewa Falls

Wisconsin January 30, 2018

Pay to the

Order of First Bank Visa $ 754.00

seven hundred fifty four and 00/100 dollars

Computer Science Bank

Minnesota Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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