Question: Q-Connection provides three Internet packages:

Package 1: $9.99 for the first 10 hours, $2 for each extra hour

Package 2: $19.99 for the first 20 hours, $1 for each extra hour

Package 3: $49.99 for unlimited hours of internet access

For text messages, the charge is $0.05 per message.

Design a program to get the number of hours and number of text messages for a customer. Also ask the user to choose the Internet packages. The program then calculates and displays the monthly charges.

Extra credit part:

In the sample program, our input validation for hours only checks negative hour. It doesn’t check if the hours used is over the maximum hours for a month. Please add this part to the input validation of hours.

Two more input item are needed: year, and month

Step 1: ask the month

Step 2: validate the month (1-12)

Step 3: check if the month is 1, 3, 5, 7, 8, 10, 12. These months has 31 days

Step 4: check is the month is 4, 6, 9, 11. These months has 30 days

Step 5: if the month is 2, ask the year

Step 6: validate the year

Step 7: if the year is a leap year, then feb has 29 days, otherwise 28 days