Week 2 – Programming project 3 from Savitch chapter 2.

3. Suppose you can buy chocolate bars from the vending machine for €1 each. Inside every chocolate bar is a coupon. You can redeem seven coupons for one chocolate bar from the machine. You would like to know how many chocolate bars you can eat, including those redeemed via coupon, if you have *n* dollars.

For example, if you have 20 Euro then you can initially buy 20 chocolate bars. This gives you 20 coupons. You can redeem 14 coupons for two additional chocolate bars. These two additional chocolate bars give you two more coupons, so you now have a total of eight coupons. This gives you enough to redeem for one final chocolate bar. As a result you now have 23 chocolate bars and two leftover coupons.

Write a program that inputs the number of Euro and outputs how many chocolate bars you can collect after spending all your money and redeeming as many coupons as possible. Also output the number of leftover coupons. The easiest way to solve this problem is to use a loop.

Note: Test your program by entering 20 for the number of Euro, and check that you have the answer expected. If not, use the debugger to help you find where you are going wrong.