Exercise 1

I was reading this article by Tim Urban - Your Life in Weeks

https://waitbutwhy.com/2014/05/life-weeks.html

Create a program that tells us how many days, weeks, months we have left if we live until 90 years old.

It will take your current age as the input and output a message with our time left in this format: "You have x days, y weeks, and z months left."

~ Where x, y and z are replaced with the actual calculated numbers.

Warning your output should match the Example Output format exactly, even the positions of the commas and full stops.

Example Input

56

Example Output

You have 12410 days, 1768 weeks, and 408 months left.

Hint: There are 365 days in a year, 52 weeks in a year and 12 months in a year.

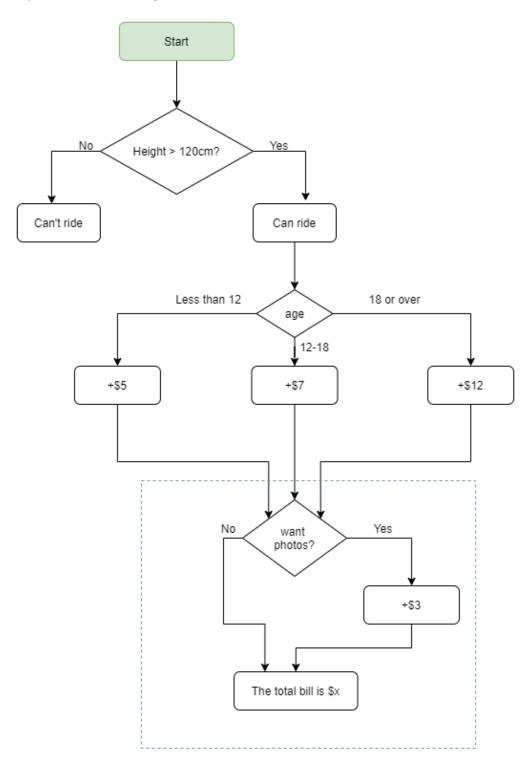
Exercise 2

Write a program that inputs three different integers from the keyboard, then prints the sum, the average, the product, the smallest and the largest of these numbers. Use only the single-selection form of the if statement you learned in this chapter. The screen dialog should appear as follows:

Input three different integers: 13 27 14 Sum is 54 Average is 18 Product is 4914 Smallest is 13 Largest is 27

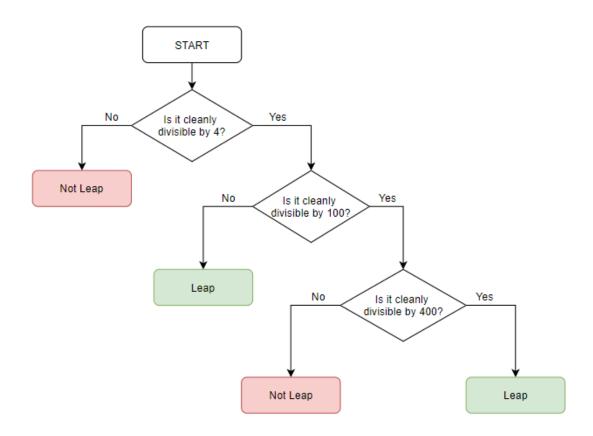
Exercise 3

Implement the following flowchart.



Exercise 4

Implement the following flowchart.



What is a leap year?

https://www.youtube.com/watch?v=xX96xng7sAE

Write a program that works out whether if a given year is a leap year. A normal year has 365 days, leap years have 366, with an extra day in February.

This is how you work out whether if a particular year is a leap year.

on every year that is evenly divisible by 4 **except** every year that is evenly divisible by 100 **unless** the year is also evenly divisible by 400

e.g. The year 2000: $2000 \div 4 = 500$ (Leap) // $2000 \div 100 = 20$ (Not Leap) // $2000 \div 400 = 5$ (Leap!) So the year 2000 is a leap year.

But the year 2100 is not a leap year because: $2100 \div 4 = 525 \text{ (Leap)} // 2100 \div 100 = 21 \text{ (Not Leap)} // 2100 \div 400 = 5.25 \text{ (Not Leap)}$