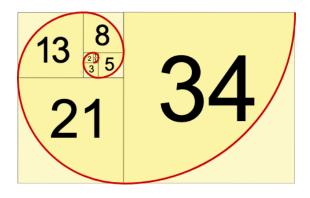
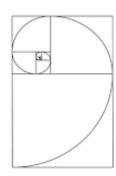
Homework – Task 1



- We have learnt Fibonacci sequence in the class. You were given a positive integer and were asked to print out the Fibonacci sequence.
- Now you are asked to input a number length from the keyboard and print a Fibonacci sequence of that length.
 - Remember the input function?
- Users might make mistakes when entering the number length. They might enter
 - · not a number, like 'ten'
 - · a decimal number, like 3.4
 - a negative number, like -9
 - zero
- Even if a user enters a positive integer, you still need to take care about the special case(s)
 - 1
 - 2
- Improve your program by being able to deal with all these user inputs.
- Hints:
 - length = int(input("Please enter the length of the sequence"))
 - Check whether the number is negative or zero
 - If the length is 1, just print out 1
 - If the length is 2, think about whether you can use the original program in the class
 - Use if...elif...else wisely.





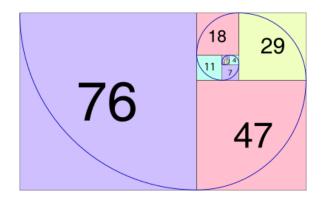


Task 2

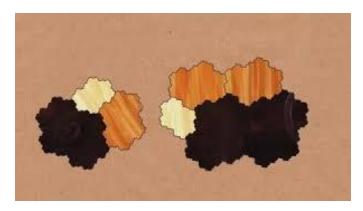


 Now we have another sequence, called Lucas numbers. They are like this:

Modify your program to generate this sequence.



- There is also something called tribonacci numbers
 - 0, 0, 1, 1, 2, 4, 7, 13, ____, ___, ____, ____,
 - Write down the next four numbers in this sequence
 - Modify your program to generate the first 20 Tribonacci numbers.



Google Rauzy Fractal tribonacci if you want to know more