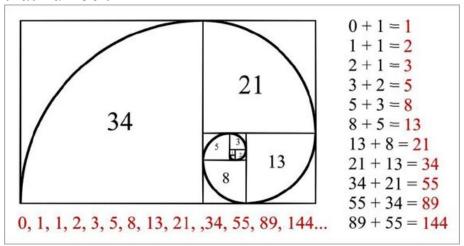
## Intr. To Prog. Language (C) Exercises 30.10.2018

1. Write a program that takes a number and create a Fibonacci series until that number.



**2.** Write a program that takes a number and create combinations of n-pairs of parentheses:

Input:3 output: ()()(), ()(()), (())(), ((()))

- **3.** Write a program that takes a number and calculate number of ways of representing n TL with 25Kr, 10Kr, 5Kr.
- **4.** Write a program that takes a number and calculate all prime numbers until that number. (Find the optimum solution)
- **5.** Swap two variables without using temporary variable. Initial values: a=5, b=3; output values: a=3, b=5
- **6.** Find the maximum of two numbers without using any if-else or comparison operator.
- 7. Write a program that takes a number of rows of upper triangle and draw a diamond from '\*'.

Input:2 output: \*\*\*

\*

**8.** Write a calculator program that only use '+' operator but

9. Convert given "if-else" statement to "switch-case".

```
if (x == 3)
        printf("%c\n",'A');
  else if (x == 7 || x == 8)
        printf("%c\n",'B');
  else if (x == 12)
        printf("%c\n",'C');
  else
       printf("%c\n",'D');
       Convert given "for" loop to "while" loop.
10.
  for (i = 0; i < 100; i++)
  {
       if (i \% 10 == 0)
             printf("\n");
  total = total+i;
  printf("%d", n);
```