# TP 01: C programming

Jean-Sébastien Coron

Université du Luxembourg

## 1 Factorial

Write a program fact that computes  $n! = n \cdot (n-1) \cdots 2 \cdot 1$ . For example, 5! = 120.

#### 2 Binary Decomposition

Write a program that outputs the binary decomposition of an integer, starting with the least significant bit.

### 3 Divisor

Write a program that outputs the list of divisors of an integer n given as input.

\$ divisor 24
1 2 3 4 6 8 12 24

## 4 Prime

Write a program that determines whether an integer is prime or not. Modify your program to output the list of prime integers between 1 and 100.