

Introduction to programming

Lab 3

1. Do exercises on SPOJ at the following link:

https://www.spoj.com/EIUDISC2/problems/introf20_02/

2. Calculate $n!$

3. Calculate $S(n) = 1 + 3 + 5 + \dots + (2 \times n + 1)$ with $n > 0$

4. Calculate $P(x, y) = x^y$ with $y \geq 0$

5. Do exercises on Code Learn: 42 – 56.

6. Print a rectangle (m, n)

Example:

- Input: m = 5, n = 4
- Output:

```
*      *      *      *      *
*      *      *      *      *
*      *      *      *      *
*      *      *      *      *
```

7. Print an empty rectangle (m, n)

Example:

- Input: m = 5, n = 4
- Output:

```
*      *      *      *      *  
*              *  
*              *  
*              *  
*      *      *      *      *
```