## **Power and faculty**

**Difficulty:** Medium

Requirements: Variables, input/output, loops

Aims: Calculating with loops

- ullet Write a program that takes two numbers a,b from the user and calculates  $a^b$  and  $b^a$
- Experts: Write a program that calculates the factorial of the user input.

## Hints

• **Experts:** The factor changes in each step.