

## Programming Languages 1

### Lesson 3

#### Exercises:

1. Write a C program, that reads integer numbers from the keyboard until 0, and print out if they are odd or even.
  1. Learn the use of the % operator.
  2. Find out how you can decide whether a number is odd or even.
  3. Write the program.
2. Write a C program that reads in 10 integer numbers from the keyboard. After this print back all the prime numbers read.
  1. Learn how to decide if a number is prime or not.
  2. Array or one variable?
  3. Write the program.
3. Modify the program written in ex. 3 so that the program decides if a number is prime in a function.
  1. Learn how to write a function in C (Hint: Look at the `main()` function.)
  2. Move the prime test code to the function.
4. Write a C program that reads an integer number from the keyboard, and prints out all the prime numbers till that number (including it if it is a prime).
  1. Reuse the previous code
  2. Do not forget to test the limiting cases

