

## Homework Week 4 – Problem 1

Develop a program to find if the integer number  $n$  is prime.

- Inputs:  $n$  - long.
- Output: the answer *ans* of the question "Is it prime?"
- How to do it:
  - Read the variable  $n$ .
  - Test if  $n$  is two → it is prime
  - Test if is multiple of two → it is not prime
  - Repeat for  $d=3,4,5,6,7,\dots$  up to ?
    - Test if  $d$  is divisor of  $n$  then the number is NOT prime
  - The number is prime if passes all these tests.