



Experiment 1 – Registers and Conditional Expressions

2020-2021 Spring

Work(17:00):

Write an assembly code that finds if a 16 bit number in AX register is a Prime number.

Please indicate the line where you load your testing value to AX with comments. Your solution should work for any input we may enter.. Show your results with at least 1 prime and 1 non-prime numbers in your report.

When the program ends the result should be in DX register.

- (a) If the number is a Prime number that number will be held in DX register.
- (b) If the number is not a Prime number result in DX should be FFFFh.

- Your program should terminate, no infinite loops can occur.
 - You should not waste any iteration cycles, your loops must not iterate more than needed checks.
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