MTH 4300: Algorithms, Computers, and Programming II

HW #1

Due Date: Feburary 12th, 2025

1

Write code that calculates max{a,b} and stores the result in the variable m.

2

Write a code that checks whether the real number x belongs to the union of the open intervals (5 - 15)U(95 - 202). If it does, the program should print yes. If it does not, the program should print no.

3

Assume that the user is asked to provide an integer x through the standard input. The program will check whether x is bigger than 100. If it is, then the program will print: "Congratulations! You know about big numbers!" and the program will then exit. If x is not bigger than 100, then the program will print:"Try again with a bigger number:" and then the user should be prompted to enter another number. The program can only end once the user has entered a number larger than 100, and should repeatedly prompt the user to enter another number if the number provided is smaller than 100.