

CMSC 131 Introduction to Computer Organization and Machine-Level Programming

Exercise 4: Implementing Iterative Statements

SET A:

Create a program that checks if a given positive integer is a prime number. Create a variable **isPrime** with the value **1** if the number is prime, otherwise, its value is **0**. You may assume that the user will only give positive numbers ranging from 2-255.

Example:

num: 2
isPrime: 1

Sample gdb input.txt for checking:

```
file a.out
set disassembly-flavor intel
b*exit_here
r
x/ub &isPrime
```