

CSCI 341: Computer Organization
PA 7: Prime Number Detector
Due November 20, 2019 11:45 PM

For this assignment, your task is to print prime numbers from all positive integers entered by the user.

1. Prompt the user repeatedly to enter a positive integer N , until the user enters 0 ($2 \leq N \leq 2^{30}$). No number will be entered twice.
2. After the user enters 0 as the input, print only prime numbers from all entered integers.

There are no constraints for this assignment. The final output of the program should look like the following: The final output of the program should look like the following:

```
Enter a positive number (0 to quit): 3
Enter a positive number (0 to quit): 8
Enter a positive number (0 to quit): 29
Enter a positive number (0 to quit): 2
Enter a positive number (0 to quit): 13
Enter a positive number (0 to quit): 100
Enter a positive number (0 to quit): 4
Enter a positive number (0 to quit): 103
Enter a positive number (0 to quit): 0
List of prime numbers: 3 29 2 13 103
-- program is finished running --
```

Submit your source code (.asm file) to Canvas.