

LeMoyne-Owen College  
Division of Computer Science

COSI240  
Valerie Chu, Ph.D.

Tuesday  
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Quiz 4

Name: \_\_\_\_\_

**Show your steps for each problem.**

1. Check whether 1357 is a **prime** number.
2. Check whether 47 is a prime number.
3. Use the **Euclidean algorithm** to find the **greatest common divisor** of 2091 and 255.

4. Find the **least common multiple** of 2091 and 255.
  
  
  
  
  
  
  
  
  
  
5. Convert a hexadecimal number 3AC to a **decimal number**.
  
  
  
  
  
  
  
  
  
  
6. Convert a decimal number 178 to a **hexadecimal number**.
  
  
  
  
  
  
  
  
  
  
7. Convert a decimal number 91 to a **binary number**.

8. Convert a binary number 10111 to a decimal number.

9. Add  $10011_2 + 10111_2$

10. Add  $2F5_{16} + 3AE_{16}$