

Encoding Scheme & Error Detection/Correction

1. Please write the entire 4-bit Gray code by reflecting and prefixing.

In []:

2. Please Convert the following Gray code word to binary code.

10011010

In []:

3. Convert the following Binary code word to Gray code.

10011010

In []:

**The following hamming code word was received.
Use it to answer questions 4 - 9.**

0101101

4. Circle the parity bits

In []:

5. What position number is generated to determine if an error has occurred in transmission?

6. Did an error occur in transmission?

In []:

7. What was the transmitted code word?

In []:

8. What was the transmitted message?

In []:

9. If the message is binary, what is the decimal value?

In []:

10. Encode a decimal 13 using each of the following codes.

- A. Binary Code
- B. BCD Code
- C. Gray Code
- D. Excess-3 Code
- E. 7-bit Hamming Code

In []: