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Test (Error Detection and Correction)

1. Find the even parity code for the following data
   1. 1010 1010
   2. 1110 010
   3. 0101 011
   4. 0110 0101
2. Tell if there is any error in the following transmitted data knowing that it used even parity code
   1. 1010 101
   2. 1110 01
   3. 0101 01 error
   4. 0110 010 error
3. Find CRC error detecting code for the following data knowing that the divisor is 1011

a. 1010 101 110

b. 1110 01 011

c. 0101 01 101

d. 0110 010 101

1. Tell if there is any error in the following transmitted data knowing that it used CRC error detecting code and the divisor is 1011
   1. 0110 010 101
   2. 1010 101 111 error
2. Find LRC error detecting code for the following data know that data is divided in to blocks of 4 bits
   1. 1101 1111 0000 1001 0011 1000
   2. 1001 1011 0101 1011 1111 0011
3. Find checksum error detection code for the following data know that data is divided in to blocks of 4 bits
   1. 1101 1111 0000 1001 0011 checksum: 0101
   2. 1001 1011 0101 1011 1111 checksum: 1001
4. Find the hamming code for the following data
   1. 1101 1111 00, hamming code: 1101 11 1 11 0 0 0 10
   2. 1001 1011 01, hamming code: 1001 10 0 11 0 1 1 11
5. Tell if there is any error in the transmitted data below knowing that it uses hamming code.
   1. 1010 101
   2. 0110 010 error at position 3
   3. 1100 110
   4. 1000 110 error at position 2

