





Packed decimal (Binary Coded Decimal):  
each digit is replaced with 4 bit equivalent

ex: 5372  $\xrightarrow{\text{BCD}}$  0101 0011 0111 0010

Parity:

Check the number of 1s

-even parity: total numbers of 1 is even

-odd parity: odd

ex: 0110 0001 has odd parity

ex: 0001 1000 has even parity

Horner's method

ex: 10011011 to decimal

|   |   |   |   |   |    |    |    |     |     |
|---|---|---|---|---|----|----|----|-----|-----|
| 2 |   | 1 | 0 | 0 | 1  | 1  | 0  | 1   | 1   |
|   |   |   | + | + | +  | +  | +  | +   | +   |
|   | ↓ | 2 | 4 | 8 | 18 | 38 | 76 | 154 |     |
|   |   | 1 | 2 | 4 | 9  | 19 | 38 | 77  | 155 |