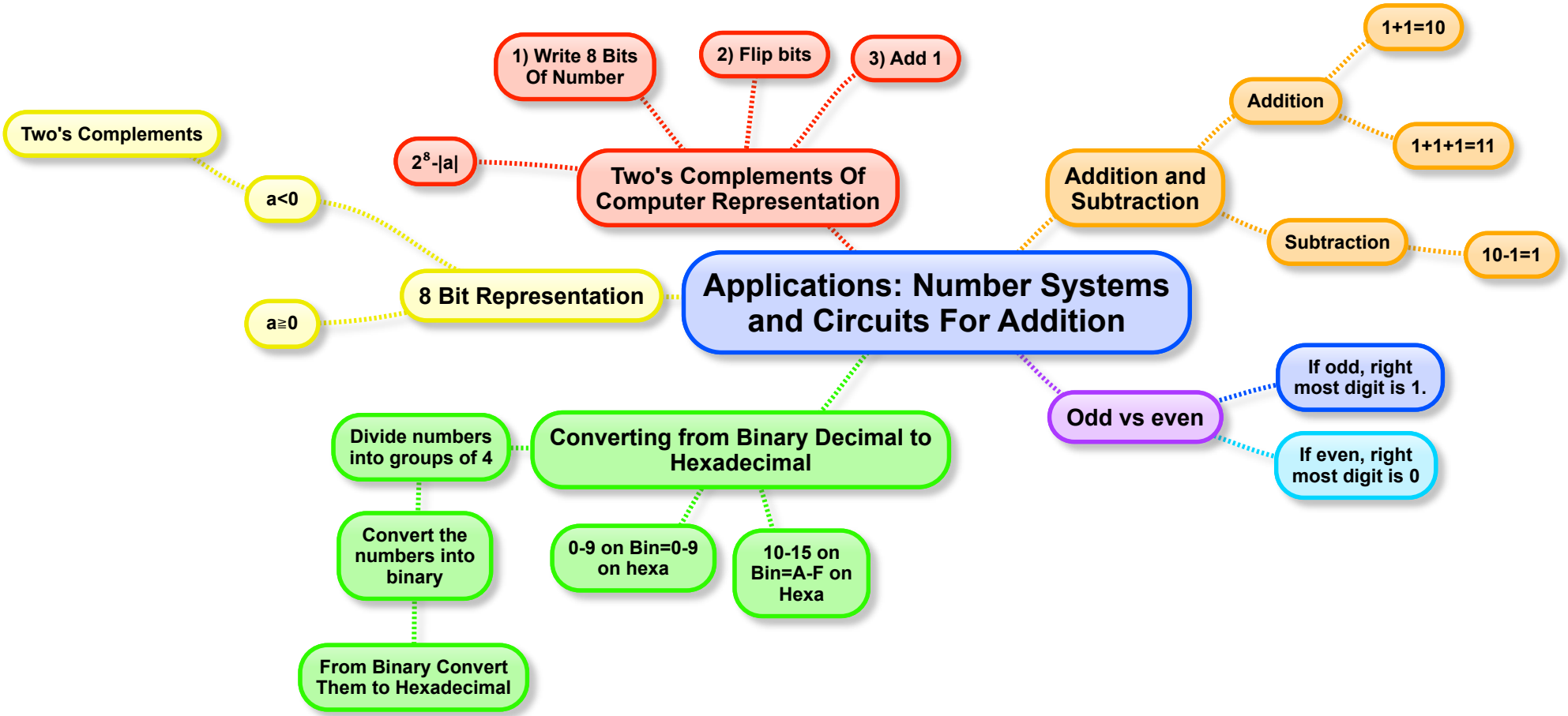
Applications: Number Systems and Circuits For Addition
Two's Complements Of Computer Representation
1) Write 8 Bits Of Number
2) Flip bits
3) Add 1
$2^8$-|a|
Two's Complements
a<0
8 Bit Representation
a≧0
Addition and Subtraction
Addition
1+1=10
1+1+1=11
Subtraction
10-1=1
Odd vs even
If odd, right most digit is 1.
If even, right most digit is 0
Converting from Binary Decimal to Hexadecimal
Divide numbers into groups of 4
Convert the numbers into binary
From Binary Convert Them to Hexadecimal
0-9 on Bin=0-9 on hexa
10-15 on Bin=A-F on Hexa