

Number Theory

Modular Arithmetic

1. $(a+b)\%M = (a\%M + b\%M)\%M$

$$\begin{aligned}(a + b)\%M &= (q_1 * M + r_1 + q_2 * M + r_2)\%M \\ &= (M * (q_1 + q_2) + (r_1 + r_2))\%M \\ &= (a\%M + b\%M)\%M \quad (\text{Because } (M * (q_1 + q_2))\%M = 0 \\ &\quad r_1 = a\%M \\ &\quad r_2 = b\%M)\end{aligned}$$

2. $(a - b)\%M = (a\%M - b\%M + M)\%M$

3. $(a*b)\%M = ((a\%M) * (b\%M))\%M$

4. $(a/b)\%M = ((a\%M) * (b_inverse\%M))\%M$

$$(a/b)\%M = ((a\%M) * (1/b)\%M)\%M$$

$$(1/b)\%M = b_inverse\%M$$

$b_inverse\%M$ exists only when b and M are coprime i.e. $\text{gcd}(b,M) = 1$

In order to find $b_inverse\%M$ we use Fermat's Little theorem

Fermat's Little Theorem :

$$(a^{(p-1)})\%p = 1$$

CONDITIONS

1. p should be prime
2. $\text{gcd}(a,p) = 1$

Example : $a = 4$
 $p = 5$
 $(4^{(5-1)})\%5 = (256)\%5 = 1$

Multiplying with $a^{(-1)}$ on both sides

$$(a^{(p-2)})\%p = (a^{(-1)})\%p = a_inverse\%p \quad \text{Eq.(1)}$$

PS : a^*b symbol here refers to a to the power b and not a XOR b

Number Theory And Mathematical Logic

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