Number Theory : Course Overview

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1. Extended Euclidean Algorithm

2. Linear Diophantine Equation

3. Matrix Exponentiation

4. Fibonacci numbers in $\mathcal{O}(\log n)$

5. Chinese Remainder Theorem

6. Euler Totient Function

7. Sum Of Divisors

8. Pollard $p-1$ method

9. Pollar Rho Algorithm