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| Symmetric Cipher | Block Cipher Operation, Pseudorandom Number Generator and Stream Ciphers |
| Asymmetric Ciphers | Public Key Cryptography, RSA, Diffie Hellman Key Exchange, Elgamal cryptosystem |
| Number Theory | CRT, Properties of multiplicative group,  Fermat little theorem, Euler function, Primality Testing – Miller Rabin Algorithm, Discrete logarithms |