

You are expected to conduct a mini-research/development on a topic related to security and write a project report (5-8 pages) covering the context of the topic, the problem and the solution in the literature, or implementing an algorithm. You can also work on any topic not in the list but in which you are interested. The number of * indicates the difficulty of the topic.

- Phishing: (*)
- Bitcoin (***)
- DoS (**)
- Vulnerabilities of electronic commerce (**)
- Enigma (implementation) (***)
- Firewall and proxy (**)
- Website protection (**)
- Virus and anti-virus (<3 years) (**)
- Poker mental (***)
- Secrete sharing (***)
- Pseudo-random number generation (***)
- DES (implementation) (***)
- AES (implementation) (***)
- Hash functions (***)
- PGP (Pretty Good Privacy) (**)
- Vulnerabilites Linux/Unix/Windows/... (***)
- Mobile system security (***)
- Database security (***)
- Attacks of TCP/IP (**)
- Buffer overflow (implementation) (***)
- Zero-knowledge proof (***)
- Quantum security (***)
- P2P (**)
- Anonymous connectivity (***)
- Homomorphic encryption (***)
- Federated learning (***)
- Differential privacy (***)
- Security in machine learning (***)
- Censureship and filtering of Internet (**)
- Biometrics (**)
- Watermarking and content protection (***)
- Covert channels (***)
- Social network security (**)
- Cloud security (***)
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您需要对与安全相关的主题进行小型研究/开发，并撰写涵盖主题上下文、文献中的问题和解决方案或实现算法的项目报告（5-8 页）。您还可以处理不在列表中但您感兴趣的任何主题。* 的数字表示题目的难度。