

36 Lecture - CS403

Important Mcqs

1. What is hashing?

- a) The process of encrypting data
- b) The process of converting data into a fixed-length value or key
- c) The process of compressing data
- d) The process of obfuscating data

Answer: b

What is a hash function?

- a) A function that converts data into a fixed-length value or key
- b) A function that compresses data
- c) A function that encrypts data
- d) A function that obfuscates data

Answer: a

What is the purpose of a hash function?

- a) To convert data into a fixed-length value or key
- b) To compress data
- c) To encrypt data
- d) To obfuscate data

Answer: a

Which of the following is an example of a hash algorithm?

- a) MD5
- b) RSA
- c) AES
- d) DES

Answer: a

What is a hash collision?

- a) When two different inputs produce the same hash output
- b) When a hash function fails to produce a fixed-length value or key
- c) When a hash function is too slow
- d) When a hash function is too complex

Answer: a

Which of the following is an advantage of hashing?

- a) Hashing allows for easy reverse engineering of data
- b) Hashing provides secure encryption of data
- c) Hashing provides a fixed-length representation of data
- d) Hashing compresses data to save storage space

Answer: c

Which of the following is a common use case for hashing?

- a) Digital signatures

- b) Image compression
- c) Audio encoding
- d) Video transcoding

Answer: a

What is a rainbow table?

- a) A precomputed table of hash values and corresponding input data
- b) A method of decrypting hashed data
- c) A type of hash function
- d) A method of obfuscating data

Answer: a

Which of the following is a potential issue with using hash functions for password storage?

- a) Hash collisions
- b) Slow computation time
- c) Hash cracking through brute force attacks
- d) None of the above

Answer: c

Which of the following is a way to mitigate the issue of hash cracking through brute force attacks?

- a) Using a stronger hash algorithm
- b) Salting the password before hashing
- c) Increasing the size of the hash value
- d) All of the above

Answer: b