

1. What is it called when two hashes are the same?

- A. Mathematical Error
- B. Overflow
- C. Race Condition
- D. Collision

Answer: \_\_\_\_\_

2. What is the Birthday problem?

- A. Considers the probability that in a set of N randomly chosen people, two people will have the same birthday
- B. Considers the probability that in a set of N randomly chosen people, another person will share your birthday
- C. Considers the probability that in a set of N uniformly chosen people, two people will have the same birthday
- D. Considers the probability that in a set of N randomly chosen people, 50% of the people will have the same birthday

Answer: \_\_\_\_\_

3. How are passwords typically stored within a database?

- A. Hashed
- B. Encrypted
- C. Encoded
- D. In Binary Format

Answer: \_\_\_\_\_

4. How many characters long are MD5 hashes?

- A. 16
- B. 32
- C. 64
- D. 128

Answer: \_\_\_\_\_

5. What is a brute force attack?

- A. Physically breaking into a secure repository to steal information
- B. Attempting to randomly guess based on some probability what the right answer would be
- C. Trying all possible combinations and permutations until the right guess works
- D. Use a logarithmic algorithm to reduce the numbers of potential guesses before selecting from the options available

Answer: \_\_\_\_\_

6. Which hashing algorithm was first published in 1992 and had collisions verified in 1996?

- A. MD1
- B. MD3
- C. MD5

D. MD7

Answer: \_\_\_\_\_

7. One way to help strengthen a hashed password to \_\_\_\_\_.

- A. Use multiple passwords
- B. Salt the password
- C. Save passwords in a file
- D. Encrypt passwords

Answer: \_\_\_\_\_

8. A \_\_\_\_\_ attack is when a malicious actor is able to attack a system by using older version of software.

- A. downgrade
- B. prehistoric
- C. pen and paper
- D. precursory

Answer: \_\_\_\_\_