Course is completed. The course result can no longer be changed.

Hash Functions

Hash Functions

Introduction

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Quiz

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Now, it's time for a short quiz to recap what you've learned. The quiz is **graded**, so you can take it only once. Each question will be followed by feedback explaining why your answer is right or wrong. If your answer is incorrect, you will see a suggestion of what you might need to refresh your memory.

Good luck!

Read the question below and select the correct answer. Then, click "Submit."

Which of the following is an existing hashing algorithm?

- RITMSHA
- MDTV
- SHARP
- RIPEMD

Correct: RIPEMD - Race Integrity Primitives Evaluation Message Digest

Submit You have used 1 of 1 attempt

Read the question below and select the correct answer. Then, click "Submit."

Use the SHA-512 hashing algorithm for the following sentence: "The entrance to the tunnel was his only way out"
What are the first three characters of the resulting hash?

- d98
- 8d9
- 9d8
- d89
- d99

Correct: Well done!

Submit You have used 1 of 1 attempt

Read the question below and select the correct answer. Then, click "Submit."

Consider the following hash function: $H(x) = x \bmod 13$
What is the size of the following set? $A = \{x \mid H(x) = 7, x, x < 319\}$

- 7

- 13
- 26
- 19
- (•) 24
- 31
- 42

✔

Correct: Well done!

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Read the question below and select the correct answer. Then, click "Submit."

You are using a polynomial rolling hash function with p = 31 and m = 107. Suppose you know the values of H(“hello w”) and H(“orld”). How would you get the value of H("hello world")?

- ( ) (H(“hello w”)*31^7+H(“orld”)) mod 107
- (•) (H(“hello w”)+H(“orld”)*31^7) mod 107
- ( ) (H(“hello w”)*31^6+H(“orld”)) mod 107
- ( ) (H(“hello w”)+H(“orld”)) mod 107
- ( ) (H(“hello w”)+H(“orld”)+31^6) mod 107

✔

Correct: Great job!

Submit You have used 1 of 1 attempt

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