⌂ Hash Tables

< Hash Tables

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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.
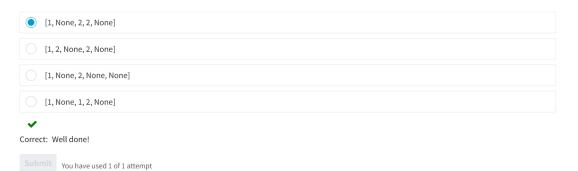
Good luck!

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

Suppose there is a direct-address table (T) of the size 5 (0-indexed) that is currently empty (empty slots have "None" values). What will the table look like after performing the following operations?

- T.set(index=0, value=1)
- T.set(index=2, value=1)
- T.set(index=3, value=2)
- T.set(index=2, value=2)

◉ [1, None, 2, 2, None]

○ [1, 2, None, 2, None]

○ [1, None, 2, None, None]

○ [1, None, 1, 2, None]

✔

Correct: Well done!

Submit   You have used 1 of 1 attempt

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

You have a hash table with 60005 key-value pairs in it. You know that the load factor of that table is 0.25. What will be the load factor of that table after inserting 13245 more key-value pairs in it? Choose the closest number from the list.

○ 0.295

○ 0.297

○ 0.301

◉ 0.307

○ 0.311

○ 0.316

✔

Correct: Nice job!

Submit   You have used 1 of 1 attempt

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

You are implementing hashing with chaining. You decide to start with a hash table with three buckets and use the following hash function to select buckets for keys:
Bucket_ID(key) = key % 3
What will be the size of the third (id 2) bucket after you insert the following key-value pairs into the hash table?

- (135, "hello")
- (3451, "world")
- (13, [1, 2, 3])
- (531, 1)
- (91, 1)
- (63, 2)
- (95, 3)
- (13, "replace")

○	0
◉	1
○	2
○	3
○	4
○	5

✔

Correct: Great job!

Submit   You have used 1 of 1 attempt

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