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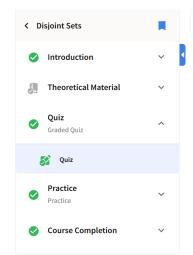
Course

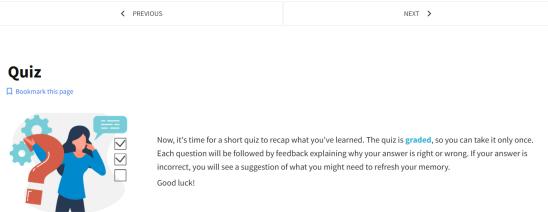
Progress

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

向 Disjoint Sets

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Read the question below and enter an answer. Then, click "Submit."

Suppose you want to support a disjoint set's data structure on top of 10 entities (numbered from 1 to 10).

You decide to avoid using heuristics.

After conducting the operations below, what will be the result of the find_set(7) operation?

- Union(1,5)
- Union(2, 5)
- Union(3, 7)
- Union(5, 6)
- Union(8, 9)
- Union(4, 9)

NOTE: The <u>visualization tool</u> might come in handy.



Correct: Well done!

Submit You have used 1 of 1 attempt

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

Suppose you want to support a disjoint set's data structure on top of 10 entities (numbered from 1 to 10).

You decide to use the "path compression" heuristic.

You conduct the following operations/requests:

- Union(1,5)
- Union(2, 3)
- Union(3, 4)
- Union(3, 6)
- Find_Set(3)
- Union(3, 7)
- Union(2, 8)

In the resulting disjoint set's forest, how many sets have 6 as their direct parent?

NOTE: The <u>visualization tool</u> might come in handy.



