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### CS213 Q 1: Lecture 3: Which of the following statements about the implementation of a stack using an array are true?

- Checking the top element has  $O(n)$  time complexity
- PUSH operation can be done in  $O(1)$  time complexity
- Checking the top element requires a traversal of the entire stack
- An array restricts access to elements in sequential order

**Answer**

Note: please be careful before submitting the answer. You will not be able to change the answers.

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## CS213 Q 1: Lecture 3: Which of the following statements about the implementation of a stack using an array are true?

You have answered the following:

- Checking the top element has  $O(n)$  time complexity (You are correct)
- PUSH operation can be done in  $O(1)$  time complexity (You are correct)
- Checking the top element requires a traversal of the entire stack (You are correct)
- An array restricts access to elements in sequential order (You are incorrect)

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