

## Week 5 Quiz

### Q1.

What's the time complexity to add a node to the head of a linked list?

- A.  $O(1)$
- B.  $O(\log n)$
- C.  $O(n)$
- D.  $O(n^2)$

### Q2.

Which of the following is a true disadvantage of using a linked list?

- A. Linked lists are not extendable
- B. It's expensive to add a node to the beginning of a linked list
- C. Once a node is added to a linked list, it cannot be deleted
- D. Linked lists do not provide efficient random access to elements

### Q3.

What is the time complexity of resizing an array?

- A.  $O(1)$
- B.  $O(\log n)$
- C.  $O(n)$
- D.  $O(n^2)$