Curso Progreso Fechas Discusión

0 ☆ Curso / GTx CS1332x Course I Wrap-up / Practice Exam < Anterior Siguiente > **Data Structure Properties** ☐ Marcar esta página **Data Structure Properties** 0 puntos posibles (no calificables) Which of the following statement is false regarding Arrays? Select only one. Arrays allow for 'easy access', meaning that if we are given a valid index, we can access data at that particular index of an array in constant time. Although arrays are instantiated with a starting capacity, its dynamic memory structure allows for it to automatically grow as more data is added to the array over time. An array is a 'contiguous' data structure, meaning the indices of an array are stored sequentially in memory. Data can be added to any valid index of an array. Which of the following statement is true regarding a Linked List? Select only one. Given a valid index, i, the data at index i of a Linked List can be accessed in constant time. Since nodes in a Linked List are Objects, in order to properly remove a node from Linked List, we simply set the node to null. Removing a target node from a Singly-Linked List requires accessing the node before the target node. All implementations of Linked Lists are circular. Which of the following statement(s) is/are true regarding a Deque? Select all that apply. lacksquare Data can be removed from the front and/or end of a Deque in $O\left(1
ight)$ time. A Deque is best implementing with a Singly-Linked List. The average time complexity for adding to an array-backed Deque is O(n) because of the resize case.

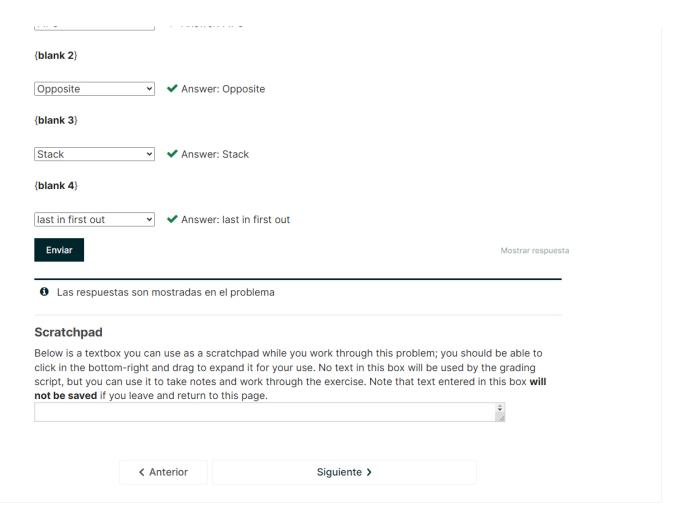
Below you will find two statements with four blanks labeled **{blank 1}**, **{blank 2}**, **{blank 3}**, and **{blank 4}**. Select the correct answer for each blank using the dropdown.

A Queue is a **{blank 1}** data structure, meaning that data is added/removed at the **{blank 2}** end of the backing structure. A **{blank 3}** is a 'LIFO' data structure, meaning that data is added/removed in a **{blank 4}** fashion.

{blank 1}

FIFO

A Deque can be used as a Stack, Queue, or both.



ed**x**°

edX

Acerca de Afiliados edX para negocios Open edX Carreras Noticias

Legal

Condiciones de Servicio y Código de Honor Política de privacidad Políticas de Accesibilidad Política de marcas Mapa del Sitio Política de cookies Opciones de privacidad

Contáctanos

Blog Contáctenos Centro de Ayuda Seguridad Kit Multimedia











C Todos los Derechos están Reservados





© 2023 edX LLC. All rights reserved. 深圳市恒宇博科技有限公司 <u>粤ICP备</u> 17044299号-2