Cheatography

PhoneScreenInfo_ResumeBased Cheat Sheet by jash24 via cheatography.com/20424/cs/9629/

Object Oriented Programming		Object Oriented Programming		Object Oriented Programming		Data Structures	
What is OOP?	Object-oriented programming (OOP) is a programming language model organized around objects rather than "actions" and data rather than logic. Historically, a program has been viewed as a logical procedure that takes input data,	(cont) What The ability to process		(cont) What is The packing of data		Traverse	Print all the array elements one by one.
		is polymo rphism- ?	objects differently depending on their data type or class. More specifically, it is the ability to redefine methods for derived classes. A polymorphic type is a type whose operations can also be applied to values of	encaps ulation ?	and functions into a single component. (Using classes). Allows selective hiding of properties and methods in an object by building an impenetrable wall to protect the code from accidental corruption.	Insertion	Adds an element at the given index
						Deletion	Deletes an element at the given index
						Search	Searches an element using the given index or by the value
						Update	Updates an element at the given index
Basic	processes it, and produces output data. Abstraction,	n	some other type. When an object or class is based on another object or class, using the same implementation to maintain the same behavior. Helps the coder: mechanism for code reuse and to allow independent extensions of the original software via public classes and interfaces.	What is construc tor?	Used to initialize private fields of the class while creating an instance for the class. A default constructor will be created by the compiler if you don't create one.	Link	Each link of a linked list can store a data called an element
Concepts of OOP?	Encapsulation, Inheritance, Polymorphism A set or category of things having some property or attribute in common and differentiated from others by kind, type, or quality.					Next	Each link of a linked list contains a link to the next link called
What is a class?							Next
				Destruct or?	A method which is automatically invoked when the object is destroyed. Main purpose is to free the resources (memory allocations, open files or sockets, etc.)	LinkedLlst	A linked list contains the connection link to the first link called First
						What is a binary search tree?	A binary tree with a special provision where a node's left child must have a value less than its parent's value and node's right child must have value greater than it's parent value.
What is an	Objects are created from classes. Objects have states and						
object?	behaviors.			Abstract class?	It may or may not include abstract methods. Cannot be instantiated, but they can be subclassed.		

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Data Structures (cont)		Algorithm	s (cont)	Cyber Security + Balbix		
What is tree traversal?	A process to visit all the nodes of a tree. 3 ways: In-order traversal, pre-order traversal, post-order	What happens in insertion sort?	Divides the list into two sub-lists, sorted and unsorted. It takes one element at time and finds it an appropriate	Which companies are in cyber security?	root9B, Herjavec Group, IBM, Checkpoint Software	
traversal. Algorithms			location in the sorted sub-list and inserts there.	What is cyber security?	Protecting information and systems from major	
What is a recursive function?	one which calls itself, directly or calls a function that in turn calls it. Every recursive function follows the recursive properties- base case where functions stop calling itself and progressive approach where the functions tries to meet the base case in each iteration.	How is insertion sort and selection sort different?	Insertion: works on the current element in hand and places it in the sorted array at the appropriate location maintaining the properties of insertion sort. Whereas, selection sort searches the minimum from the unsorted sub-list and replaces it with the current element in hand.	Exigence? News? Why?	cyber threats. Computer and computer networks are involved in almost every aspect of our lives. Anything connected to the internet is at risk of getting hacked. Internet of Things is an innovation that is really common and useful nowadays. However, it is another area for hackers to penetrate. Internet of Things brings about another vulnerability. This is why cyber security today is so important. We have	
What is selection sort?	Divides the data set into two sub-lists: sorted and unsorted. Then it selects the minimum element from unsorted sub-list and places it into the sorted list.	What is recursive backtrack ing?	Backtracking reduces the # of possible value assignments that we consider, because it never considers invalid assignments.			
					so much technology that is connected to the internet.	

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