

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

Object Oriented Programming		Object Oriented Programm	
What is	Object-oriented	(cont)	
OOP?	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, processes it, and	What is polymorphism?	The ability to proobjects different depending on the data type or class. More specifically the ability to red methods for der classes. A polyr rphic type is a type whose operation can also be approvalues of some type.
	produces output data.	What is inheri-	When an object
Basic Concepts of OOP?	Abstraction, Encapsulation, Inheritance, Polymorphism	tance?	another object of class, using the implementation maintain the sai
What is a class?	A set or category of things having some property or attribute in common and differentiated from others by kind, type, or quality.		behavior. Helps coder: mechanis code reuse and allow independe extensions of th original software public classes a
What is an object?	Objects are created from classes. Objects have states and behaviors.		interfaces.

Programming	Object Or (cont)	iented Programming
bility to process s differently ading on their type or class. specifically, it is sility to redefine ads for derived as. A polymo- type is a type a operations so be applied to	What is encaps- ulation?	The packing of data 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.
an object or is based on er object or using the same mentation to ain the same	What is constructor?	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.
mechanism for reuse and to independent sions of the al software via classes and ices.	Destructor?	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.)
	Abstract class?	It may or may not include abstract methods. Cannot be instantiated, but they can be subclassed.

Data Structi	ures
Traverse	Print all the array elements one by one.
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
Link	Each link of a linked list can store a data called an element
Next	Each link of a linked list contains a link to the next link called Next
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.



By jash24 cheatography.com/jash24/ Published 2nd November, 2016. Last updated 26th October, 2016. Page 1 of 2.

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Data Structures (cont)

What is tree traversal? A process to visit all the nodes of a tree. 3 ways: In-order traversal, pre-order traversal, post-order traversal.

Algorithms

What is one which calls itself, directly or calls a function that recursive function? 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

What is selection sort?

Divides the data set into two sub-lists: sorted and unsorted. Then it selects the minimum element from unsorted sublist and places it into the sorted list.

in each iteration.

Algorithms (cont)

What Divides the list into happens two sub-lists, sorted in and unsorted. It takes one element insertion sort? at time and finds it an appropriate location in the sorted sub-list and inserts there.

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.

What is recursive backtracking?

Backtracking reduces the # of possible value assignments that we consider, because it never considers invalid assignments.

Cyber Security + Balbix

Which companies are in cyber

root9B, Herjavec Group, IBM, Checkpoint Software

What is cyber security?

security?

Protecting information and systems from major cyber threats.

Exigence? News? Why?

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 so much technology that is connected to the internet.



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