Summer Internship: GROUP A

Take Again

Candidate's Information

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OOP

What is object-oriented programming? *

- a) A programming paradigm that focuses on objects and their interactions.
- b) A programming paradigm that focuses on functions and procedures.
- c) A programming language developed by PHP Group.

d) A programming language that supports only procedural programming.

Which keyword is used to instantiate an object of a class?

What is the visibility modifier "protected"?

- a) The property or method can only be accessed within the same class.
- b) The property or method can be accessed within the same class and its subclasses.
- c) The property or method can be accessed from anywhere.

(3)

d) The property or method cannot be accessed outside the class.

What is the difference between an abstract class and an interface?

An abstract class can have constructors, while an interface cannot.

An abstract class can have multiple inheritance, while an interface cannot.

An abstract class can have method implementations, while an interface cannot.

An abstract class can be instantiated, while an interface cannot.

What is method overloading?

Defining multiple methods with the same name but different parameters in a class.

Calling a method from within another method of the same class.

Changing the behavior of a method in a subclass.

Declaring a method as private or protected.

What is a static variable?

A variable that can be accessed only within the same class.

A variable that can be accessed without creating an object of the class.

A variable that is automatically initialized by the compiler.

A variable that cannot be modified after initialization.

What is encapsulation?

Combining multiple classes into a single file.

Hiding the internal details of an object and providing access through methods.

Storing data in a class and accessing it through properties.

Grouping related properties and methods into a class.



What is the purpose of the "abstract" keyword?

To prevent a class from being instantiated.

To prevent a method from being overridden.

To define a blueprint for a class that cannot be instantiated directly.

To define a constant that cannot be modified.

Which design pattern is used to ensure that a class has only one instance and provides a global point of access to it?

Singleton

Factory

Observer

Prototype

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General Programming

What is the purpose of the "if" statement in programming?

a) To execute a block of code only if a certain condition is true♥

b) To define a variable

c) To declare a function

d) To assign a value to a variable

What is the purpose of the "while" loop in programming?

a) To make decisions based on conditions

b) To repeat a block of code a fixed number of times

c) To define a function

d) To repeat a block of code as long as a condition is true



What is the purpose of the "switch" statement in programming?

a) To make decisions based on conditions

b) To repeat a block of code a fixed number of times

c) To define a function

d) To perform different actions based on different values of a variable



What is the purpose of the "else" statement in an if-else construct?

It is executed when the condition in the if statement is true.

It is executed when the condition in the if statement is false.

It is always executed, regardless of the condition.

It is executed before the if statement.

HTML/CSS/JS

What does CSS stand for?

Cascading Style Sheet



Central Style System

Creative Style Selector

Computerized Style Solution

Which of the following is not a valid way to define a function in JavaScript?

function add(a, b) { return a + b; }

const add = $(a, b) \Rightarrow a + b$:

const add = function(a, b) { return a + b: }

const add(a, b) { return a + b; }



What is the purpose of the "this" keyword in JavaScript?

It refers to the current object.



It is used to define a new object.

It refers to the global object.

It is used to create a class.

What does the acronym HTML stand for?

Hyperlink Markup Language

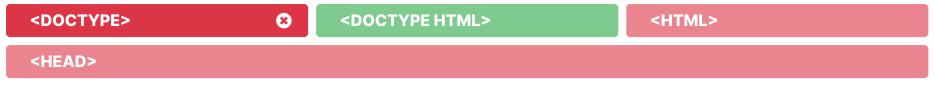
Hypertext Markup Language



Home Text Markup Language

Hypermedia Text Markup Language

Which HTML tag is used to define the document type?



Which HTML tag is used to insert an image into a web page?



Which attribute is used to specify the destination URL of a hyperlink?



Which HTML tag is used to create a hyperlink?



Which HTML tag is used to create a line break?



Which HTML tag is used to create a numbered list?



Which HTML tag is used to define a table row? *

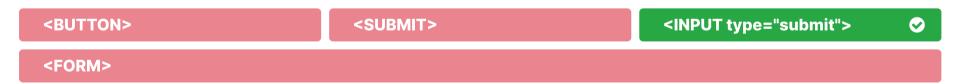


Which HTML tag is used to create a checkbox?

Which HTML tag is used to create a radio button?



Which HTML tag is used to create a submit button?



Which HTML tag is used to create a heading?



Databases

Which of the following is an example of a NoSQL database?



General Computer Science

What does the acronym API stand for?



Application Protocol Interface

Advanced Program Interface

Advanced Protocol Interface

Which of the following is not a valid type of HTTP request method?

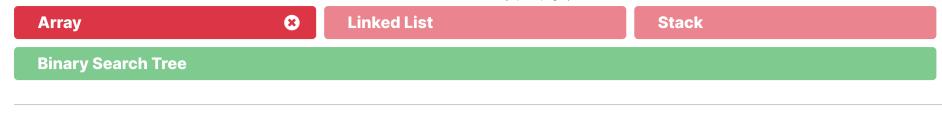


Data Structure

Which data structure is best suited for implementing a dictionary?



Which data structure is used for efficient search, insert, and delete operations with a sorted collection of elements?

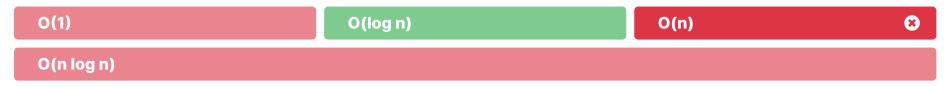


Algorithm

What is an algorithm?



What is the time complexity of searching for an element in a binary search tree (BST)?



Which data structure allows constant-time insertion and deletion operations?



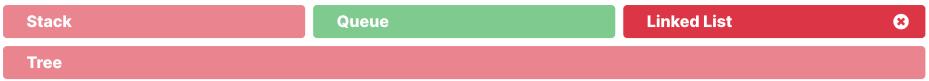
Which data structure is used for implementing recursion?



Which data structure is used to implement Depth-First Search (DFS)?



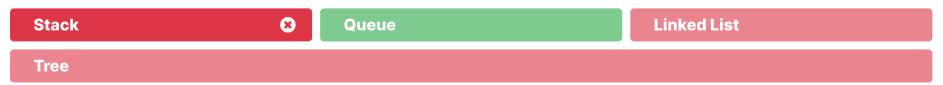
Which data structure uses two pointers, a "front" and a "rear" pointer?



Which HTML tag is used to create a paragraph?



Which data structure is used to implement Breadth-First Search (BFS)?



Which of the following is not a sorting algorithm?



Which CSS property is used to add a border to an element?



Which of the following is not a JavaScript framework



HTML/CSS/JS

Which HTML tag is used to define a table header cell?



<TD>

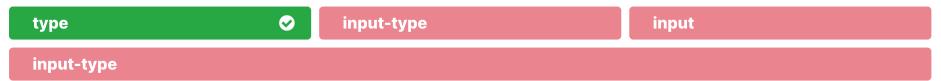
Which attribute is used to specify the alignment of an image in the tag? *



Which HTML tag is used to create a form?



Which attribute is used to specify the input type in the <INPUT> tag? *



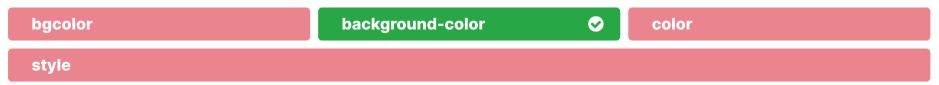
Which HTML tag is used to create a drop-down list?



Which HTML tag is used to create a text input field?



Which attribute is used to specify the background color of an element?



Which CSS property is used to change the font size of an element?



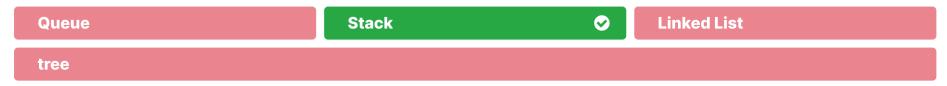
Which CSS property is used to change the text color of an element?



Which attribute is used to specify the placeholder text in an input field?



Which data structure follows the Last-In-First-Out (LIFO) principle?

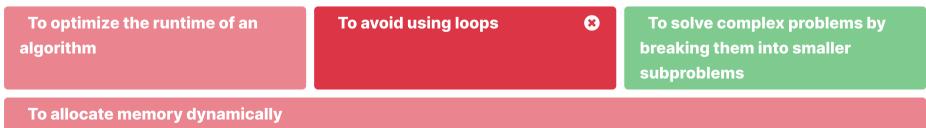


Which attribute is used to specify the width of a table cell? *



General Programming

What is the purpose of recursion in programming?

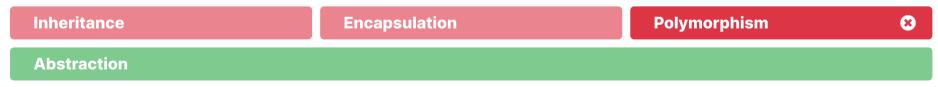


Which of the following is an example of a logical operator?



OOP

Which of the following is NOT a fundamental concept of Object-Oriented Programming?



What is the process of creating an object from a class called?



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