

Trainee Software Engineer (TSE) Test

Analytical Abilities

Suppose you have 10 balls in a jar. 5 of them are red and 5 of them are white. If you pick randomly, minimum how many balls you have to pick to get at least 3 same color balls in the worst case?

☐ 3

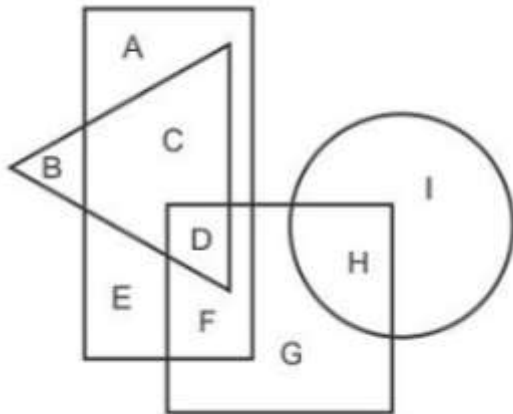
☐ 4

☒ 5

☐ 6



In the following figure, the rectangle represents Physicians, circle represents Racers, triangle represents Writers and square represents Mothers. Which set of letters represents Mothers who are not Racers?



☐ FGH

☐ ECA

☒ DFG

☐ DGFI

Find the number of triangles in the given figure ?



☐ 5

☐ 8

☐ 9

☒ 10



Anik and Sazid are two shopkeepers who sit side by side. Polok goes to Sazid's shop and asks for a product which costs 300 TK. Sazid also bought this for 300 TK previously. Polok gave Sazid a 1000 TAKA note but due to lack of changes Sazid went to Anik's shop, got the change from Anik and kept 300 for himself and returned 700 TK to Polok. Later Anik comes to Sazid with the 1000 TAKA note saying "this note is duplicate bro!" and takes his money back. How much loss did Sazid face?"

- ☐ 700 TK
- ☒ 1000 TK
- ☐ 1300 TK
- ☐ 0 TK

[Back](#)[Next](#)

Page 2 of 12

[Clear form](#)

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API's

You're designing an API for WellDev, a recruitment management system, and there is a need to modify the job titles of posted positions. Which HTTP method is most appropriate for this specific update operation?

- ☐ GET
- ☐ POST
- ☐ PUT
- ☒ PATCH



What is the difference between *PUT* and *PATCH* methods in REST API?

- ☐ PUT is used for creating resources, while PATCH is used for updating resources
- ☒ PUT updates the entire resource, while PATCH updates only specific fields of a resource
- ☐ PUT requires authentication, while PATCH does not
- ☐ PUT is idempotent, while PATCH is not

When designing a RESTful API, what is the significance of the HTTP status code 429?

- ☐ It indicates that the requested resource has been permanently moved to a different URI.
- ☐ It signifies that the request has been successfully processed and the response is available in the response body.
- ☒ It is used to inform the client that the server is not prepared to handle the request due to too many requests being made, indicating rate limiting or throttling.
- ☐ It represents an internal server error, typically a 500-series status code.

When designing an API, what are the key advantages of implementing rate limiting and throttling mechanisms?

- ☐ Protecting sensitive user data from unauthorized access.
- ☒ Ensuring that API endpoints are always available and responsive.
- ☐ Reducing the need for proper authentication and authorization.
- ☐ Enhancing the clarity and simplicity of API documentation.



In the context of RESTful APIs, what does the HTTP status code "410 Gone" indicate?

- ☐ The request has been successfully processed
- ☐ The resource has moved temporarily to a different URL
- ☒ The resource is no longer available at the requested URL, and it won't be available in the future
- ☐ The server encountered an error while processing the request

What is the primary difference between SOAP and RESTful APIs?

- ☒ SOAP is protocol-agnostic, while REST is based on HTTP
- ☐ REST uses XML for data exchange, while SOAP uses JSON
- ☐ SOAP is stateless, while REST allows for stateful interactions
- ☐ REST supports only synchronous communication, while SOAP supports both synchronous and asynchronous communication

Back

Next

Page 3 of 12

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Database

Which replication model is most suitable for scenarios where different geographic regions need to update the same dataset independently?

- ☐ Snapshot Replication
- ☐ Master-Slave Replication
- ☒ Multi-Master Replication
- ☐ Query Replication

Which of the following is the column in structure of index?

- ☐ search key
- ☐ data reference
- ☒ Both a and b
- ☐ none of the above



Which join is equivalent to Cartesian Product?

- ☐ Inner Join
- ☐ Outer Join
- ☒ Cross Join
- ☐ Natural Join

Which of the following is a common characteristic of NoSQL databases?

- ☐ They exclusively use the SQL query language
- ☒ They can handle unstructured and semi-structured data efficiently
- ☐ They are primarily used for traditional relational data modeling
- ☐ They are best suited for highly structured data

The 'Having' clause does which of the following:

- ☒ acts like a WHERE clause but is used for groups rather than rows.
- ☐ acts like a WHERE clause but is used for rows rather than columns.
- ☐ acts like a WHERE clause but is used for columns rather than groups.
- ☐ acts EXACTLY like a WHERE clause.



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[Back](#)

[Next](#)

Page 4 of 12

[Clear form](#)

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Data Structure

In a binary tree, the root node has two child nodes and the left child node also has two child nodes. Is it a full binary tree or Complete Binary tree?



Full binary tree.



Complete Binary tree.



Both.



None of them.



Inserting an item into the stack when the stack is not full is called
Operation and deletion of items from the stack, when the stack is not empty is calledoperation.

- ☒ push, pop
- ☐ pop, push
- ☐ insert, delete
- ☐ delete, insert

In WellDev, you are tasked with storing information about millions of products, each with a unique identifier (product ID). You frequently need to retrieve product details by their IDs to ensure efficient user interactions. Which data structure would be most advantageous for this scenario?

- ☒ Hash Map
- ☐ Linked List
- ☐ Binary Search Tree
- ☐ Queue

Consider a complete binary tree where the left and the right subtrees of the root are max-heaps. The lower bound for the number of operations to convert the tree to a heap is

- ☒ $\Omega(\log n)$
- ☐ $\Omega(n)$
- ☐ $\Omega(n \log n)$
- ☐ $\Omega(n^2)$



Which of the following is false about a Heap?

- ☐ Every Heap is a complete binary tree
- ☐ Time complexity for building a Heap from an array is $O(n)$
- ☒ In a min heap, the value of each parent node is greater than or equal to its child nodes
- ☐ Both b & c

How many spanning trees can be formed from a complete graph with 5 vertices?

- ☐ 15
- ☐ 2
- ☐ 75
- ☒ 125

The order of an internal node in a B+ tree index is the maximum number of children it can have. Suppose that a child pointer takes 6 bytes, the search field value takes 14 bytes, and the block size is 512 bytes. What is the order of the internal node?

- ☐ 24
- ☐ 25
- ☒ 26
- ☐ 27

$$\frac{512}{14 + 6}$$

Back

Next

Page 5 of 12

Clear form

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Back

Next

Page 5 of 12

Clear form



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[Back](#)

[Next](#)

Page 5 of 12

[Clear form](#)



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[Back](#)

[Next](#)

Page 5 of 12

[Clear form](#)



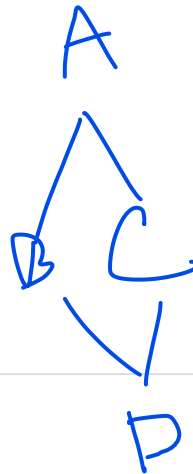
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OOP

Suppose, there is a class A with method `writeHelloWorld()`, two other classes B and C inherits this class A and both overrides the method. Another class D, inherits both B and C. Now If an object of class D calls the method `writeHelloWorld()` which implementation of the method will be called?

- ☐ Class A.
- ☐ Class B.
- ☐ Class C.
- ☒ Class B & C



Identify the incorrect constructor type?

- ☒ Friend Constructor
- ☐ Copy Constructor
- ☐ Parameterized Constructor
- ☐ Default Constructor

What is the role of access modifiers in encapsulation?

- ☒ To control the visibility and accessibility of class members
- ☐ To establish relationships between classes
- ☐ To specify the names of attributes and methods
- ☐ To define the order in which methods are executed

Choose the option below which is shown by function overriding.

- ☒ Polymorphism
- ☐ Abstraction
- ☐ Inheritance
- ☐ Encapsulation



Total types of polymorphism in C++ are?

- ☐ 1
- ☒ 2
- ☐ 3
- ☐ 4

Which among the following is safe?

- ☒ Upcasting
- ☐ Downcasting
- ☐ Both upcasting and downcasting
- ☐ If upcasting is safe then downcasting is not, and vice versa

What is the primary advantage of composition over inheritance in OOP?

- ☐ Composition promotes code reusability.
- ☐ Composition provides a stronger "is-a" relationship between classes.
- ☒ Composition allows for more flexibility and reduces coupling.
- ☐ Composition simplifies the design of complex class hierarchies.

Back

Next

Page 6 of 12

Clear form

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Back

Next

Page 6 of 12

Clear form

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Algorithm

What is the time complexity of searching for an element in an unsorted array with 'n' elements?



$O(n)$



$O(\log n)$



$O(1)$



$O(n^2)$



In an unsorted array of length 7, all the elements on the left side of the 4th element are lesser than it and the elements on the right side of the 4th element are greater. In such a scenario, which sorting algorithm would be the best choice in terms of both time complexity and space complexity?

- ☐ Insertion sort
- ☒ Quick sort
- ☐ Bubble sort
- ☐ Merge sort

What is the average case time complexity of binary search using recursion?

- ☐ $O(n \log n)$
- ☒ $O(\log n)$
- ☐ $O(n)$
- ☐ $O(n^2)$

Which sorting algorithm is most efficient for sorting a linked list?

- ☐ Quick Sort
- ☒ Merge Sort
- ☐ Bubble Sort
- ☐ Selection Sort



You are given a large dataset of text documents and need to perform efficient text search operations. Which data structure would be most suitable for this task?

- ☐ Array
- ☐ Linked List
- ☒ Trie
- ☐ Heap

You need to find all possible solutions to the N-WellDev puzzle. In the N-WellDev puzzle, you are given an $N \times N$ chessboard, and you need to place N queens on the board in such a way that no two queens threaten each other. Specifically, no two queens should be in the same row, column, or diagonal.

Which approach can you use to efficiently solve this problem?

- ☐ Recursion
- ☐ Dynamic programming
- ☐ Divide and conquer
- ☒ Backtracking

What is the primary purpose of memoization?

- ☒ To store intermediate results and avoid redundant calculations in dynamic programming
- ☐ To sort data in a more efficient way
- ☐ To improve the accuracy of floating-point calculations
- ☐ To allocate memory for data structures



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Design Pattern

Which design pattern is used to create an object with a fixed set of properties and optional properties with default values?



Builder Pattern



Adapter Pattern



Command Pattern



Abstract Factory Pattern



What problem does the singleton design pattern solve?

- ☒ It ensures that a class has only one instance and provides a global point of access to it
- ☐ It separates the construction of a complex object from its representation
- ☐ It defines an interface for creating an object, but leaves the choice of its type to the subclasses
- ☐ It allows a method to operate on objects of different types

What is the difference between Model-View-Presenter (MVP) and Model-View-ViewModel (MVVM) design patterns?

- ☒ Presenter can hold reference of View but ViewModel cannot
- ☐ Presenter can contain Observers but ViewModel cannot
- ☐ ViewModel can be tested using Unit test but Presenter cannot
- ☐ None of the above

What is the purpose of the "Strategy" pattern in design patterns?

- ☐ To provide a way to access elements of an object's internal representation
- ☐ To allow an object to alter its behavior when its internal state changes
- ☒ To define a family of algorithms, encapsulate each one, and make them interchangeable
- ☐ To add responsibilities to objects dynamically without affecting their behavior



In the context of the Decorator Pattern, which statement is true?

- ☐ It involves creating duplicate instances of an object to save memory
- ☐ It provides a unified interface for a set of interfaces in a subsystem
- ☒ It is primarily used to add new responsibilities to an object dynamically
- ☐ It involves creating objects based on a prototype instance

Back

Next

Page 8 of 12

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Networking

What is the purpose of a subnet mask in IP addressing?

- ☐ To identify the unique IP address of a device on a network.
- ☒ To indicate the network portion of an IP address and the host portion.
- ☐ To specify the port number for a network service.
- ☐ To encrypt data transmitted over a network.

Given the IP address 192.168.2.100 and a subnet mask of 255.255.255.192 (or /26 in CIDR notation), what is the network address for this IP?

- ☒ 192.168.2.64
- ☐ 192.168.2.96
- ☐ 192.168.2.100
- ☐ 192.168.2.128



What is the time complexity of the below code?

A screenshot of a code editor window titled "Untitled-1" with a dark background and light-colored text. The code is written in C++ and shows a while loop that halves the value of 'i' until it reaches 0, while incrementing 'a' by 1 in each iteration. The code is:

```
int a = 0, i = N;
while (i > 0) {
    a += 1;
    i /= 2;
}
```

- ☐ $O(N)$
- ☐ $O(\text{Sqrt}(N))$
- ☐ $O(N / 2)$
- ☒ $O(\log N)$

What is the default subnet mask for a Class B IP address?

- ☐ 255.0.0.0
- ☒ 255.255.0.0
- ☐ 255.255.255.0
- ☐ 255.255.255.255

Which layer of the OSI model is responsible for logical addressing and routing of data packets?

- ☐ Data Link Layer
- ☒ Network Layer
- ☐ Transport Layer
- ☐ Application Layer



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Simple Math Problems

In a right-angled triangle, what is the side opposite the right angle called?

- ☒ Hypotenuse
- ☐ Adjacent side
- ☐ Opposite side
- ☐ Complementary side



A bakery sells cakes in three different sizes: small, medium, and large. The ratio of the number of small cakes to medium cakes to large cakes sold in a day is 2:3:5. If they sell a total of 200 cakes in a day, how many medium cakes were sold?

- ☐ 20
- ☐ 30
- ☐ 50
- ☒ 60

A train travels from City A to City B at a constant speed of 60 miles per hour and returns from City B to City A at a constant speed of 40 miles per hour. The total round trip takes 10 hours, including a 1-hour stop at City B. What is the distance between City A and City B?

- ☐ 160 miles
- ☐ 400 miles
- ☒ 216 miles
- ☐ 220 miles

If you have a circle with a radius of 5 centimeters, what is its approximate circumference?

- ☐ 10 cm
- ☒ 31.4 cm
- ☐ 25 cm
- ☐ 15.7 cm



A shelf has 4 books on history, 5 books on arts, and 3 science books. If one book is taken at random, what is the probability that it is not a history book?

- ☐ 3/12
- ☐ 4/12
- ☒ 8/12
- ☐ 9/12

Back

Next

Page 10 of 12

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General Knowledge

A References is :

- ☐ A Alias to an existing variable
- ☐ A variable that holds a memory address
- ☒ Alias to an existing variable and holds a memory address
- ☐ None of the above

Which mode will write data to a file even if it doesn't exist?

- ☐ w+
- ☐ r+
- ☐ a+
- ☒ Both w+ and a+



When did the great depression take place?

- ☒ 1929-1939
- ☐ 1921-1936
- ☐ 1952-1968
- ☐ 1855-1890

What is the second law of thermodynamics?

- ☐ Energy cannot be created or destroyed
- ☒ For a spontaneous process, the entropy of the universe increases
- ☐ A perfect crystal at zero Kelvin has zero entropy
- ☐ If two bodies are individually in equilibrium with a separate third body, then the first two bodies are also in thermal equilibrium with each other

In computer networking, what does the acronym "LAN" typically stand for?

- ☒ Local Area Network
- ☐ Long Accessible Network
- ☐ Limited Area Node
- ☐ Link Authorization Network

[Back](#)

[Next](#)

Page 11 of 12

[Clear form](#)

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Programming

```
for (int i = 0; i <= 4; i++) { printf("I love programming\n"); }
```

If this is the condition of a for loop, what is the value of i after the loop ends?

- ☐ 3
- ☐ 4
- ☒ 5
- ☐ 2



In the following code, what will be printed as the value of i ?

```
int i = 0;
```

```
for (i = 0; i <= 9; i++) {  
    System.out.println("Hello there!");  
}  
System.out.println(i);
```

- ☐ 8
- ☐ 9
- ☒ 10
- ☐ Compilation Error

```
int answer = 0, arr = {10, 8, 9, 8, 9, 9, 10, 9} [Hard]
```

```
for (int i = 0; i < arr.size(); i++) {  
    answer ^= arr[i]; // ^ stands for bitwise xor  
}
```

What would be the value of the answer variable after the code execution?

- ☐ 10
- ☒ 0
- ☐ 9
- ☐ 27



What will be the output of the following C++ code?

```
#include <iostream>

using namespace std;

int main() {

    int array[] = {1, 2, 3, 4, 5};

    for (int i = 0; i < 5; ++i) {

        cout << array[i] << " ";

    }

    return 0;

}
```

☒ 1 2 3 4 5

☐ 5 4 3 2 1

☐ 0 1 2 3 4

☐ 4 3 2 1 0



```
C/C++ int fibonacci(int n) {  
    if (n <= 0)  
        return 0;  
    else if (n == 1)  
        return 1;  
    else  
        return fibonacci(n - 1) + fibonacci(n - 2);  
}
```

What type of function is used here?

- ☐ Pure function
- ☒ Recursive function
- ☐ Curried function
- ☐ Abstract function

If the marked price of 30 articles is equal to selling price of 40 articles, then find the % Discount?

- ☒ 25%
- ☐ 33.33%
- ☐ 75%
- ☐ 20%



0.28, 0.56, 1.68, __

- ☐ 2.68
- ☒ 6.72
- ☐ 7.72
- ☐ None

Quilgo Test ID *

This question is filled automatically 🙌 DO NOT EDIT OR REMOVE

Your answer

[Back](#)

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Page 12 of 12

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