



InterviewBit

TCS Interview Questions



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Let's get Started

[IT companies](#) have expanded rapidly in recent years, particularly in India, but only a few are able to provide their employees a long-term career. That is why individuals choose to work with well-known companies. Being linked with a brand not only offers you the assurance that you are on the correct track in your career, but it also helps to ensure job security to some level. TCS is a brand that people believe can help them advance their careers while maintaining a proper work-life balance.

Tata Consultancy Services is an IT services, consulting, and business solutions firm that has been assisting many of the world's leading corporations in their transformation efforts for more than 50 years. It is based in Mumbai, Maharashtra, with its main campus in Chennai, Tamil Nadu. TCS is the world's largest IT services firm by market capitalization (\$169.2 billion) as of February 2021. TCS is part of the Tata group, India's largest multinational corporate conglomerate, and employs approximately 488,000 world-class consultants in 46 countries.

The Top Employers Institute has named TCS a Global Top Employer, one of just eight firms in the world to get this honor. TCS is able to attract and develop the greatest personnel by offering holistic long-term jobs based on continuous learning-enabled anytime, anywhere, any device digital learning environment.



TCS Recruitment Process

1. Interview Process

TCS is an excellent location to begin your career as a new employee. It provides a fantastic workplace as well as a welcoming setting with a good ambiance conducive to individual and company progress. TCS holds a mass recruiting procedure every year to find applicants for the position of Software Engineer. This article not only explains how to answer relevant TCS interview questions but also provides a road map for experienced and fresher candidates to acquire their dream job in TCS.

2. Interview Rounds

Interview round 1: TCS NQT

The first round of the TCS recruitment process is TCS NQT (National Qualifier Test), which is considered one of the most difficult stages of the procedure. It is an Ability Test that evaluates a candidate's abilities and skills. TCS NQT Exams are offered both online (at home) and in-person at TCS iON Authorised Exam Centers.

The test has five sections:

Numerical Ability	20-30 Questions
Verbal	20-25 Questions
Reasoning Ability	25-35 Questions
Programming logic	5-15 Questions
Coding	1-2 Questions

The candidates will be assessed for the following topics:

- Numerical ability: Number Systems, Arithmetic, Elementary Statistics, and Data Interpretation are all assessed in this part.
- Verbal Ability: This section assesses English grammar, how to use it correctly, and reading comprehension.
- Reasoning ability: Identifying words and mathematical patterns, problem-solving, figurative and factual analysis, decision-making, propositional reasoning, and visual-spatial reasoning are all assessed in this section.

The programming section examines knowledge and skill in specific disciplines related to occupational roles in the areas below:

- Pseudo-code, Algorithms, Programming structures, fundamental Software Development Life Cycle (SDLC) and its stage-wise documents, and implementation using C, C++, and Java will be tested.
- Candidates must be able to code in any of the following programming languages: C, C++, Java, Python, and PERL.
- Hands-on exercise of coding.

After passing the NQT Round, you will be eligible for the TCS NINJA Technical Interview.

Interview round 2: Technical interview

This is the most challenging stage of the hiring process, so do your best to prepare for it. The focus of the entire interview process will be on your technical knowledge, biography, and primary projects.

The technical round of the TCS interview which is face to face consists of questions designed to assess the candidate's knowledge of data structures and algorithms, database management systems, operating systems, networking, object-oriented programming ideas, and a programming language of your choice. There's a considerable chance you'll be asked to write some code on pen and paper.

Interview round 3: Managerial round

The managerial round is handled by a panel of senior members. This is also a face-to-face interview round. This round may consist entirely of technical questions or a combination of technical and managerial questions. The majority of the questions are based on the profile for which you are being interviewed. You should be up to date on any new technologies or software required for that position. You may also be asked questions based on your actions to assess your thinking style. You could be put under pressure to see how you react. Your CV's achievements may be questioned, and you may have to defend them. You may be questioned about your previous working experiences, your objectives, motivations for joining TCS, and other similar topics.

The panel will assess your corporate culture fit, attitude, soft skills, desired career advancement, and other factors in this round.

You might also be asked generic questions about your work experience, college degree, speciality, desire to relocate, and so on. In any event, regardless of the route the interview takes, always be gracious. The interview panel aims to force you to step outside of your comfort zone. Maintain your composure and respond to the questions that you are familiar with. If the answer is unknown, don't give up; instead, try it with what you know.

Interview round 4: HR round

Expect questions about work experience, education, interests, and family background, in addition to the standard HR questions about strengths and weaknesses, reasons for applying to the company, why you should be hired, and so on. They can also ask questions about TCS - when it was formed, its objectives, values, organizational structure, and so on.

Most candidates believe that the HR interview is simple, but keep in mind that a poor HR interview can jeopardize your chances of receiving the job, even if you have cleared all other hurdles (aptitude test, technical round, etc.). The goal is to maintain a pleasant and confident demeanour. Interviews can be long and tedious, so remember to smile!

This is the last stage of the hiring process. Candidates are expected to be adaptable, yet this phase allows for negotiation. The [most common questions asked](#) are :

- Please tell me about yourself. (Start with your academics, projects, achievements, other curriculum activities, and your strengths if you are a beginner. Also, tell them about your hobbies, background, and so on. If you're an experienced professional, start with your present position, achievements, previous work history, and then academic and personal information.)
- Why do you want to work in the IT field?
- Why are you interested in working for TCS?
- Are you willing to relocate to different parts of India?
- Why are you looking for a job change? (If you're an experienced professional seeking a change, this is a common question. The easiest method to respond to this question is to state that you are leaving your current work in order to advance your career. Make sure you don't criticize or speak poorly about the company where you now work.)
- What is your expected salary? (This is a difficult question to answer. It is generally asked of experienced employees. You may inquire about the company's standard raise for employees.)

TCS Technical Interview Questions: Freshers and Experienced

3. What is Socket Programming? What Are The Benefits And Drawbacks Of Java Sockets?

Socket programming is a method of allowing two network nodes to communicate with each other. One socket (node) listens on a specific port at an IP address, while the other socket connects with it. While the client connects to the server, the server creates the listener socket.

Java Socket Benefits:

- Sockets are adaptable and adequate. For general communications, efficient socket-based programming is simple to build.
- Low network traffic is caused by sockets. Unlike HTML forms and CGI scripts, which construct and send entire web pages for each new request, Java applets can simply send the information that has changed.

Java Socket Drawbacks:

- Because a Java applet running in a Web browser can only connect to the machine from which it originated and nowhere else on the network, security restrictions can be oppressive at times.
- Despite all of Java's beneficial capabilities, Socket-based connections merely allow for the transmission of raw data packets between programs. Both the client and the server must provide ways for making the data valuable in some way.
- Because data formats and protocols are application-specific, the re-use of socket-based systems is limited.

4. What is IPsec? What are its components?

IP security (IPSec) is an Internet Engineering Task Force (IETF) standard suite of protocols that offer data authentication, integrity, and confidentiality between two communication points over an IP network. It also specifies how packets are encrypted, decrypted, and authenticated. It specifies the protocols for safe key exchange and key management.

It consists of the following components:

- **Encapsulating Security Payload (ESP):** Data integrity, encryption, authentication, and anti-replay are all provided by ESP. It also supports payload authentication.
- **Authentication Header (AH):** This header also supports data integrity, authentication, and anti-replay, but not encryption. anti-replay protection guards against unwanted packet transmission. It does not ensure the privacy of data.
- **IKE (Internet Key Exchange):** It's a network security protocol that allows two devices to dynamically exchange encryption keys and find a way to communicate across a Security Association (SA). To support secure communication, the Security Association (SA) creates common security properties between two network entities. IKE (Internet Key Exchange) protects the content of messages and serves as an open framework for implementing common algorithms like SHA and MD5. Each packet is assigned a unique identifier by the algorithm's IP sec users. The device can then determine whether a packet is correct or not using this identifier. Unauthorized packets are deleted and not delivered to the intended recipient.

5. What do you understand about a Subnet Mask?

The number indicating the range of IP addresses that can be used within a network is called a Subnet Mask. Sub Networks or subnets are assigned to them. These subnetworks are a collection of LANs that are linked to the internet.

This Subnet mask is a 32-bit value that masks the IP address and divides it into two parts: the network address and the host address. Subnet Masks are made by assigning all network bits to "1" and all host bits to "0." There are two network addresses that can't be assigned to any host on the network: "0" and "255", which are assigned to the network and the broadcast address, respectively, and hence can't be assigned to anyone.

6. What is NAT?

Network Address Translation (NAT) is an acronym for Network Address Translation. It involves modifying the IP headers of packets being transported over a traffic routing device to remap one IP address space to another.

7. What is piggybacking?

After receiving data packets in two-way communication, the receiver sends an acknowledgment (control frame or ACK) to the sender. The receiver, on the other hand, does not send the acknowledgment right away, instead of waiting until the next data packet is received by its network layer. The ACK is then added to the incoming data frame. Piggybacking is the process of postponing the ACK and attaching it to the next outgoing data frame.

8. What does a database schema imply? What are its types?

A "database schema" is a plan for how a database is built that describes how data is organized (divided into database tables in the case of relational databases). A database schema is formally defined as a series of formulas (sentences) known as integrity constraints that are imposed on a database.

Physical schema, logical schema, and view schema are the three types of schema.

The physical schema describes how the data contained in blocks of storage is characterized at the physical level of a database.

The logical schema is the design of a database at the logical level; programmers and database administrators work at this level; data can be characterized as certain types of data records that are stored in data structures; however, internal details such as data structure implementation are obscured at this level (available at the physical level).

View schema is the design of a database at the view level. This term refers to how end-users interact with database systems.

9. What is the difference between a clustered index and non clustered index ?

A clustered index is a form of index that reorders the physical storage of records in a table, whereas a non clustered index is one in which the logical order of the index does not match the physical storage order of the rows on the disc. Insert and update operations are faster than with a clustered index. Data is physically stored in index order, making it faster to read than non-clustered data.

10. What do you understand about round trip time?

The **round-trip time** (RTT) is the time it takes for a network request to travel from a starting point to a destination and back to the initial point in milliseconds (ms). RTT is a useful indicator for measuring the health of a connection on a local network or the wider Internet, and it is frequently used by network managers to diagnose network connection speed and dependability.

11. What is a Ping?

A ping is a computer program that is used to determine whether a host is reachable and capable of accepting requests across an IP network. It operates by sending an ICMP (Internet Control Message Protocol) Echo to a network computer and waiting for a response. It can be used for troubleshooting as well.

12. What do you know about SLIP?

Serial Line Internet Protocol (SLIP) is a basic protocol for communication over serial ports and routers that works with TCP/IP. They allow machines that were previously configured for direct communication to communicate with one another.

A client might be linked to the Internet service provider (ISP) over a slower SLIP line, for example. When a client requires a service, he or she submits a request to the ISP. The ISP responds to the request and sends it across high-speed multiplexed lines to the Internet. The results are then sent back to the client through SLIP lines by the ISP.

The format of a SLIP frame is fairly simple, consisting of a payload and a flag that serves as an end delimiter. The flag is usually a special character with a decimal value of 192. If this flag is included in the data, it is preceded by an escape sequence, which prevents the receiver from mistaking it for the end of the frame.

13. What is Ethernet?

Ethernet is a network technology that connects devices via cables for data transmission in Local Area Networks (LANs), Metropolitan Area Networks (MANs), and Wide Area Networks (WANs). It delivers services on the OSI Model's Physical and Data Link layers. The purpose of an Ethernet network is so computers and other devices can efficiently share files, information, and data. Ethernet was first introduced in 1980.

14. What is the tunnel mode in networking?

Tunnel Mode is a way of transmitting data over the Internet that encrypts both the contents and the original IP address information. It secures communications between security gateways, firewalls, and other devices in a Site-to-Site VPN. In Transport Mode or Tunnel Mode, the Encapsulating Security Payload (ESP) is used. ESP encrypts the data and the IP header information in Tunnel Mode.

15. Discuss the RSA algorithm in brief.

The RSA, an asymmetric cryptography algorithm, is used to protect the data transfer. For encryption, this technique uses a public key, while the decryption key is kept secure or secret. Two huge prime numbers are used to generate the encryption key, which is then publicized along with an auxiliary value. This public key can be used for encryption by anyone, but only someone who knows the prime numbers can decrypt it. This technique, however, is believed to be slow, and as a result, it is not frequently used to encrypt data.

16. In a software program, what is cyclomatic complexity?

The number of linearly independent paths in a code segment is measured in terms of cyclomatic complexity. It's a software statistic that shows how complex a code is. It is calculated using the program's Control Flow Graph. The nodes in the graph represent the smallest set of commands in a program, and a directed edge connects the two nodes, indicating whether the second command should be executed immediately after the first.

The directed graph inside control flow is the edge connecting two basic blocks of the program mathematically, as control may flow from first to second.

$$CC = E - N + P$$

where,

CC: cyclomatic complexity.

E: number of edges in the control flow graph

N: the number of nodes in the control flow graph

P: the number of connected elements

17. Give an instance where there was a bug that you didn't find in black box testing but discovered in white box testing.

Let's imagine you have an item that is stored across numerous tables, and you want to delete it. Your black-box test case is considered passed after the entity disappears from the GUI after deletion in black-box testing. White-box testing, on the other hand, verifies that all relevant rows are removed from the tables. The test case is considered unsuccessful if the deletion simply deletes the parent record, leaving the child rows intact.

18. What is slice splicing in software testing? What are its two types?

A program slice is a set of program statements. We could code a slice and test it right away if we chose to construct software in terms of compatible slices. We can then code and test additional slices before combining them into good software. Slice splicing is the term for this process.

There are two forms of slicing: static and dynamic.

Static Slicing:

- A static slice of a program contains all statements that may change the value of a variable at any point during any arbitrary execution of the program.
- In general, static slices are larger.
- It considers every potential program execution.

Dynamic slicing:

- A dynamic slice of a program is made up of all the statements that actually impact the value of a variable at any point for a specific execution of the program.
- In general, dynamic slices are smaller.
- Only takes into account a particular program execution.

19. Enlist the differences between AWT and Swing in Java.

AWT	Swing
Java AWT is a Java API for creating graphical user interfaces.	Swing is a part of Java Foundation Classes that are used to build a variety of apps.
The components that belong to Java AWT are heavily weighted.	The components that belong to Java Swing are light weighted.
The execution time of AWT is more than that of Swing. AWT components are comparatively less powerful.	The execution time of Swing is less than that of AWT. Swing components are comparatively more powerful.
The components that belong to Java AWT are platform-dependent.	The components that belong to Java Swing are independent of any platform.
AWT does not support the MVC pattern.	Swing supports the MVC pattern.

20. Explain memory leak in C++. How can you avoid it?

Memory leaking happens in C++ when programmers dynamically allocate memory with the `new` keyword or using `malloc()`/`calloc()` and then forget to deallocate it with the `delete()` or `delete[]` operators or the `free()` function. In C++, one of the most common causes of memory leakage is the use of the incorrect `delete` operator.

The `delete []` operator should be used to free an array of data values, whereas the `delete` operator should be used to clear a single allocated memory space.

To avoid memory leak:

- When possible, utilise smart pointers instead of manually managing memory.
- Instead of `char *`, use `std::string`. All memory management is handled internally, which is quick and well-optimized.
- Unless you're interacting with an older library, you should never use a raw pointer.
- In C++, the simplest strategy to avoid memory leaks is to have a few `new/delete` calls as possible at the program level — ideally NONE.
- Write all code between the `new` and `delete` keywords to allocate memory and deallocate memory.

21. What is the meaning of a command line argument in C?

Command-line arguments are used to get parameters from the command prompt in C. There are three arguments to the `main` function in C. They are as follows:

- Argument counter
- Argument vector
- Environment vector

22. What do you mean by concurrency control?

Concurrency Control in a Database Management System is a method of controlling multiple operations at the same time without interfering. It ensures that Database transactions are completed in a timely and accurate manner to deliver accurate results without jeopardizing the database's data integrity.

The concurrency control mechanism is used by DBMS for the following reasons:

- Isolation is achieved by reciprocal exclusion of conflicting transactions.
- Conflicts between read-write and write-write must be resolved.
- Constantly preserving execution obstacles in order to maintain database consistency
- The system must keep track of how the concurrent transactions interact. Concurrent-control techniques are used to achieve this control.

23. What do you mean by SQL Correlated Subqueries?

A correlated sub-query is a sub-query that is dependent on another query. Sub-queries that are executed for each row of an outer query are referred to as correlated sub-queries. For each row in the outer query, each sub-query is executed once.

Correlated sub-queries can alternatively be thought of as queries that the parent statement uses for row-by-row processing. The parent statement, in this case, might be SELECT, UPDATE, or DELETE.

24. What is a checkpoint in a database management system, and when does it eventuate?

A checkpoint is a technique that removes all previous logs from the system and stores them permanently on the storage drive. Checkpoints are those locations in the transaction log record from which all committed data up to the point of the crash can be recovered.

25. In a database management system, what are the two integrity rules?

Referential integrity rules and entity integrity rules are the two forms of integrity rules.

According to referential integrity requirements, if a primary key value is used as a foreign key in a child table, it cannot be changed. Let R and S be two different relations. Assume that R relates to the relation S through a set of attributes that serve as the Primary Key of S and as a Foreign Key in the relation R. The Foreign Key in a tuple in R must then be either equal to the Primary Key in a tuple in S or completely NULL.

The main key value cannot be null due to entity integrity. An attribute X of a relation R(R) cannot take null values if it is a Prime Attribute of R(R). A Prime Attribute is an attribute that is a part of a relation's Candidate Key.

26. What exactly are macros? What are the benefits and drawbacks?

Macros are pre-processor constants that are replaced at compile time. Thus, a macro is a section of code in a program that has been given a name. The compiler substitutes this name with the actual piece of code whenever it encounters it.

The downside of macros is that they are not function calls; they simply change the code. Similarly, they have the advantage of saving time when substituting the same values.

```
#include <stdio.h>
// defining macros
#define TEXT "Hello"
#define EVEN 2
#define SUMMATION (8 + 2)
int main()
{
    printf("String: %s\n", TEXT);
    printf("First Even Number: %d\n", EVEN);
    printf("Summation: 8+2=%d\n", SUMMATION);
    return 0;
}
```

Any instance of the terms TEXT, EVEN and SUMMATION in the sample above will be substituted by whatever is in their body.

27. What is the difference between the Java Development Kit (JDK), Java Runtime Environment (JRE), and Java Virtual Machine (JVM)?

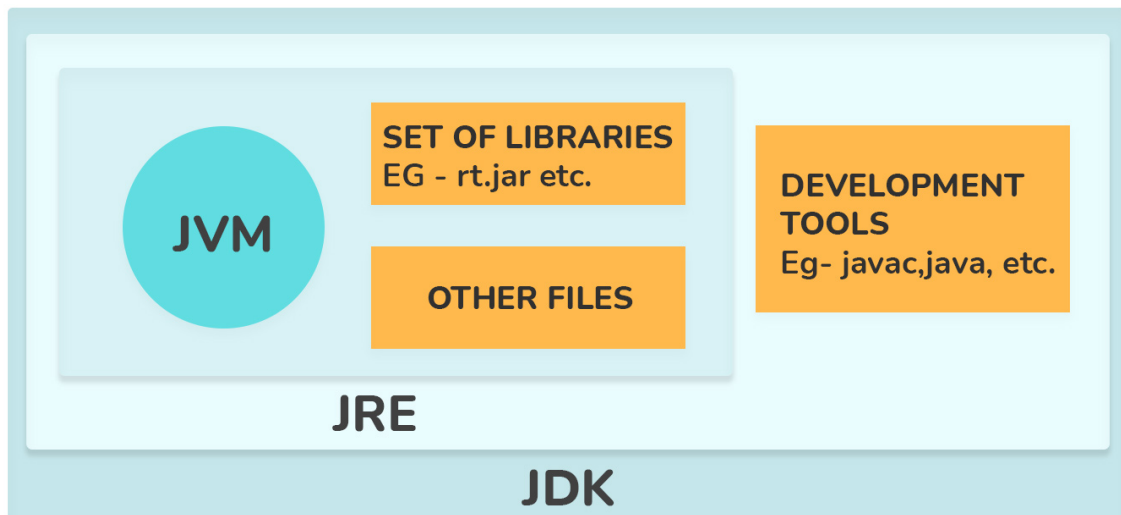
Java Virtual Machine (JVM) is an abstract machine that offers a runtime environment for Java byte-code execution. It is a specification that describes how the Java Virtual Machine works. Oracle and other companies have helped with its adoption. JRE is the name of the program that implements it.

There are JVMs for a variety of hardware and software systems (so JVM is platform-dependent). It is a runtime instance that is created when the Java class is executed. The JVM is divided into three parts: specification, implementation, and instance.

Java Runtime Environment (JRE) is an acronym for Java Runtime Environment. It is the JVM implementation. The Java Runtime Environment (JRE) is a collection of software tools for creating Java applications. It's responsible for creating the runtime environment. It is the JVM implementation. It is a real thing. It comprises a collection of libraries as well as other files that JVM uses during execution.

The term JDK stands for Java Development Kit. It's a software development environment for creating Java applets and applications. It is a real thing. It includes JRE as well as developer tools. JDK is an implementation of any of Oracle Corporation's Java Platforms, as listed below:

- Java Platform Standard Edition
- Java Platform Enterprise Edition
- Java Platform Micro Edition



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28. How will you swap two numbers without the use of a third variable?

This can be achieved using arithmetic operations.

```
int x = 5, y = 15;

// Code to swap the values of x and y
x = x + y; // x now becomes 20
y = x - y; // y becomes 5
x = x - y; // x becomes 15
```

Or

```
int x = 5, y = 15;

// Code to swap the values of x and y
x = x * y; // x now becomes 75
y = x / y; // y becomes 5
x = x / y; // x becomes 15
```

This can also be achieved using bitwise operations.

```
int x = 5, y = 15;

// Code to swap the values of x and y
x = x ^ y; // x now becomes 20
y = x ^ y; // y becomes 5
x = x ^ y; // x becomes 15
```

29. Write the code to reverse a given number using Command Line Arguments.

- There is no need for a specific input line because the number is entered as a Command-line Argument.
- From the command line argument, extract the input number. This number will be of the String type.
- Convert this number to an integer and save it in the variable num.
- Create a variable called rev to record the inverse of this number.
- Now loop through num until it equals zero, i.e. (num > 0).
- At the end of each iteration, add the remainder of num to rev after multiplying it by 10. The last digit of num will be stored in rev.
- To eliminate the last digit from the num, divide it by ten.
- When the loop is finished, rev has the opposite of num.

```
class IB {  
    // Function for reversing the number  
    public static int revNum(int num)  
    {  
        // Variable which stores the  
        // required reverse number  
        int rev = 0;  
  
        // Traversing the number digit by digit  
        while (1) {  
            if(num <= 0)  
                break;  
            // Attach the last digit of num  
            // as the next digit of rev  
            rev = rev * 10 + num % 10;  
  
            // Drop the last digit of num  
            num = num / 10;  
        }  
  
        // Return the resultant reverse number  
        return rev;  
    }  
  
    public static void main(String[] args)  
    {  
        if (args.length > 0) {  
            // Obtain the command line argument and  
            // Convert it to integer type from string type  
            int number = Integer.parseInt(args[0]);  
  
            System.out.println(revNum(number));  
        }  
        else  
            System.out.println("No command line arguments found.");  
    }  
}
```

30. What is meant by Cycle Stealing?

In the context of Direct Memory Access, we come across cycle stealing (DMA). The DMA controller can either use the data bus when the CPU is not using it or force the CPU to cease execution temporarily. Cycle stealing is the term for the second method. It's worth noting that cycle stealing is only possible at specific breakpoints in an instruction cycle.

31. What are the two concepts of swapping in the context of OS? How does swapping help in better memory management?

Swapping has been subdivided into two concepts: Swap-in and Swap-out.

- Swap-out is a technique for transferring a process from RAM to the secondary memory.
- Swap-in is a technique for removing a program from the secondary memory and reinstalling it in the main memory, also known as RAM.

Processes can be copied from the main memory to a backing store and then copied back at regular intervals determined by the operating system. Swapping allows more processes to execute at the same time than memory allows. Swapping allows the CPU to do numerous jobs at the same time. As a result, procedures don't have to wait very long to be executed. It aids the CPU's ability to manage several tasks in a single main memory. It facilitates the creation and use of virtual memory.

32. What is the RR Scheduling Algorithm in OS?

The RR (round-robin) scheduling algorithm was designed with time-sharing systems in mind. The CPU scheduler goes around a circular queue, allocating CPU to each task for a time period of up to around 10 to 100 milliseconds.

It is simple and easy to implement. It is preemptive because processes are only allotted CPU for a certain amount of time. All processes get an equal share of CPU. Disadvantages include context switches, low throughput, larger waiting time, and response time.

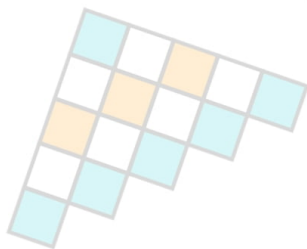
33. What are interrupts?

An interrupt is a part of the hardware system that alerts the CPU when it wants to access a specific resource. This interrupt signal is received by an interrupt handler, which “tells” the processor to operate in response to the interrupt request.

TCS Interview Preparation

34. Interview Preparation Tips

Finding a suitable career necessitates a great deal of effort and focus. A little bit of planning ahead of time could considerably improve your chances of making it to the interview stage. But, in all honesty, it's well worth it!



- The first step in nailing any interview is “Self Confidence.” If you are confident enough, you have already completed half of the task. Keep a positive attitude and a smile on your face at all times.
- Study your technical subjects thoroughly and practice your responses to frequent HR and management interview questions. Above all, stay cool and certain, and you'll have an excellent chance of surviving.
- Visit the company's website. Understand the services and product lines that the company provides its mission and philosophy. Employers expect you to understand who the company is, what it does, and how it fits into your career aspirations. These types of company-related questions can be asked in the HR round.
- In your technical interview, your academic projects and mini-projects play a significant influence. Be highly strong in the fundamentals of the programming language, regardless of your technical role.
- Make Your Resume Perfect. Employers will only take into consideration resumes and cover letters that are error-free in terms of format, grammar, and spelling. Resumes should be targeted to the exact position for which you've applied, highlighting relevant work experience and academic credentials.
- Remember to learn about the basic algorithm for Fibonacci sequence, sorting, the Armstrong Number, prime, palindrome, even, odd, and factorial programs.
- Answers should be BRIEF. To convey the essential solution, don't use any additional word arts. Don't waste time giving useless responses or asking questions that aren't relevant. Any interviewer who sees you do this will immediately mark you down on their scorecard.

Frequently Asked Questions

35. Does TCS Nqt have coding questions?

Generally, there will be 2 coding questions in the TCS NQT Online test. TCS has renamed these questions "Hands-on Coding," although they are still the same TCS Coding Questions.

The languages that you can utilize for TCS NQT are as follows:

- C
- C++
- Python
- JAVA
- Perl

36. Who is eligible for TCS Nqt?

- Pre-final and final-year undergraduate, graduate, and diploma students.
- Students with any degree or specialization/discipline are welcome to apply.
- Freshers (those who have fewer than two years of experience).

37. What is the salary for freshers in TCS?

TCS pays freshers a minimum salary of **Rs.3.30 to Rs.3.60 lakhs** per year if they pass all interview rounds, including the NQT, technical round, HR round, and management round. This is TCS Ninja's initial pay.

38. What kind of coding questions are asked in TCS?

These are the most critical and fundamental TCS NQT coding questions, which serve as a foundation for solving additional problems :

- Reverse a string
- Reverse a number
- Prime number
- Greatest among 10 numbers
- Fibonacci series
- Swap 2 numbers
- Armstrong number
- Decimal to binary & vice versa
- Average of 2 numbers
- Odd-even number
- Check leap year

and other basic coding questions.

39. What are the basic questions asked in a TCS interview?

You will be tested on your programming skills. Computer Networks, DBMS, Software Management, Operation Systems, and Cloud Computing are all topics that students will be asked questions from. Prepare well about projects which you have created. Prepare the basics of HTML, C, C++, and other computer-related topics. Prepare the topics which are mentioned in your resume. The most common questions asked in HR interviews relate to relocation, background, reasons for a job change, expected salary, and others. They can also ask questions related to the company. Know the company well.

40. What is TCS ninja?

TCS Ninja is a job role that TCS offers to new employees (freshers).

The TCS Ninja Recruitment eligibility criteria are shown below.

- In the Class Xth, Class XIIth, Diploma (if applicable), Graduation, and Postgraduate examinations, the minimum aggregate (all subjects in all semesters) scores should be 60 percent or 6 CGPA.
- Students in the highest qualification must not have more than one ongoing backlog, arrear, or ATKT at the time of the TCS Selection process. Keep in mind that if you're chosen, you shouldn't have any outstanding debts or arrears when you start working at TCS.
- Declaring gaps in education is required (if any). Extended education (examinations completed after the Board / University's deadline) should not result in a break in education. Any gap in education should not last longer than 24 months and should only be taken for legitimate reasons.
- To participate in the TCS Ninja recruitment process, students must be between the ages of 18 and 28.
- UG/PG Engineering Courses & Discipline Only B.E. / B.Tech / M.E. / M.Tech / MCA / M.Sc courses from any university / college specialization are eligible to apply.
- Freshers with up to two years of prior work experience are eligible to apply for the TCS Ninja recruiting process.

41. How many rounds of interviews are there in TCS?

There are 3 rounds of interviews:

- Technical interview
- Managerial interview
- HR interview

Check out the above section to [learn more](#).

42. Is TCS interview tough for experienced?

It makes no difference if the TCS interview is difficult or simple. The truth is that the more you prepare, the easier it will be to pass the interview. Acquire sufficient knowledge about interview stages, rounds, and questions, among other things. The interview is based on the candidate's CV (prior experience, previous works) and the job requirements. Questions are posed about programming languages, logical thinking, and products/software/projects on which the candidate has recently or previously worked.

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