

TCS CodeVita Preparation Sheet

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Exam Registration link : <https://codevita.tcsapps.com/>

Eligibility

The following coders across the globe are eligible to register for the TCS CodeVita.

1. Completing their graduation in the year 2024, 2025, and 2026, 2027 or 2028
2. They are pursuing undergraduate/diploma/postgraduate disciplines in engineering/science disciplines with any specialization from a recognized institution across the globe.

Exam Pattern

The TCS CodeVita consists of three rounds which are discussed below.

Pre-Qualifier Round

This will be an individual coding competition for the participants. You would require to complete this coding round in 6 hours. This round is segregated into two zones, and the contestants will be allocated the zones accordingly.

Participants who will qualify for this round will be escalated to the next round.

Qualifier Round

The shortlisted candidates will be eligible to appear for the qualifier round. The mode for this round will also be online, and again TCS will provide you with 6 hours to solve the coding challenge. Top Students from both the zones

will participate in this qualifier round, and top performers of this round will travel to the main venue to attend the grand finale of the TCS CodeVita.

Grand Finale

It is the most decorated round, and it invites the top performers of the qualifier round to one of the TCS offices in India. Participants from across the world will attend it, and you will have the opportunity to interact and compete with them. The difficulty level is challenging, and the winner will get prize money of **20,000 USD!** Along with the tag of 'World's best Coder'.

Topics to cover for TCS CodeVita 2024

Important topics you should prepare for TCS CodeVita 2024 are:

- [Queue](#)
- [Stack](#)
- [Greedy Algorithms](#)
- [Tree](#)
- [Dynamic Programming](#)
- [Graph](#)
- [Backtracking](#)
- [Mapping concepts](#)
- [String Manipulation](#)
- [String](#)

Resources:

TCS Codevita Coding Ques with Solutions by Campusmonk :

https://youtube.com/playlist?list=PL3JmT-xgOMNwkF_vcHrLKWeiO0_3kww2P&si=IPNR3OAAWzANPat9

TCS Codevita Coding Ques with Solutions by NG Tutorials :

<https://youtube.com/playlist?list=PLPzfPcir5uPTJt84tvdzEN3Cds7k07gSA&si=KEc9kqoqnY75H1UD>

Official Sample Questions by TCS : <https://codevita.tcsapps.com/>

Previous Year Questions with Solutions

<https://prepinsta.com/tcs-codevita/practice-questions-with-answers/>

<https://www.faceprep.in/tcs/tcs-codevita-questions/>

<https://www.geeksforgeeks.org/tcs-codevita-9-pre-qualifier-round-questions/>

Other basic topics you should focus on are:

- [Matrix Multiplication](#)
- [GCD](#) and [LCM](#)
- [Fibonacci series](#)
- [Pattern Printing](#)
- [Binary Search Tree](#)

Some More Topics

Maths and Calculation Based

Number Theory

Searching Sorting

2 Pointers Approach

C++ STL , Collection Framework Java

Stacks and Queues

Binary Search

Dynamic Programming

Graphs

Heaps

Recursion

Segment Trees