





Seminar on Competitive Programming (CP) and Bd Software Engineer Interview Guidelines

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AGENDA

- Introduction to Competitive Programming (CP)
- Importance of CP for Software Engineers
- Strategies and Tips for Excelling in CP
- List of top Software Company
- Bangladesh Software Engineer Interview Guidelines
- Resources and Tools
- Q&A Session

WHAT IS COMPETITIVE PROGRAMMING?

- A mind sport where participants solve algorithmic problems.
- Helps improve problem-solving and coding skills.
- Conducted on platforms like Codeforces, LeetCode, and AtCoder.
- Key to standing out in software engineering roles.
- ICPC, NCPC, IUPC

WHY IS CP IMPORTANT FOR SOFTWARE ENGINEERS?

- Enhances algorithmic thinking.
- Builds a strong foundation in data structures and algorithms.
- Prepares for coding interviews at top tech companies.
- Encourages quick thinking under time constraints.

HOW TO EXCEL IN CP

- Learn any programming language (C++ for beginner)
- Learn STL and start solving problems
- Learn Topic and solve problems
- Make github repo of algorithm
- Practice consistently on platforms like Codeforces and AtCoder.
- Focus on learning advanced algorithms and data structures.
- Participate in contests regularly.
- Participate in virtual contest for improving speed.
- Analyze and learn from unsuccessful attempts.
- Practice according to rating levels on Codeforces.

LIST OF TOP SOFTWARE COMPANY

- AppsCode Ltd.
- Samsung R&D
- Enosis Solution
- Welldev
- Orbitax
- Kite Games Studio
- Brain Station 23
- Neural Semiconductor
- Vivasoft
- Dynamic Solution Innovator
- Exabyting
- Cefalo Bd Ltd.
- TechnoNext
- weDevs

INTERVIEW GUIDELINES FOR BANGLADESH SOFTWARE ENGINEERS

- Focus on problem-solving, OOP and DBMS.
- Keep practicing in Codeforces.
- Read Top interview question of all the topic.
- Build one/two good project for interview.(Most Important)
- Learn git and github.
- Practice Mock interview.
- Take Preparation for Behavioural Round.(Most Important)
- Reflect on past interview mistakes and learn from them.

RESOURCES AND TOOLS

- OOP(C++ , Java: Optional)
 1. <https://www.youtube.com/watch?v=ncMo5au4nXU&list=PLA8Bpojmt5JF4KKQCElqURc71z6nvYXEK> (Theory + Practice question)
 2. https://www.youtube.com/watch?v=i_5pvt7ag7E&t=3984s
https://www.youtube.com/watch?v=b3GccK5_KSQ (Best Theory)
 3. <https://www.interviewbit.com/oops-mcq/> (practice)
- DBMS
 1. <https://www.youtube.com/watch?v=viJzDvom2Yc> (Covers all the important topic)
 2. <https://leetcode.com/studyplan/top-sql-50/> (solve top 20-30 questions)

Q&A SESSION

- Feel free to ask your questions!