

Complete Competitive Programming Course

Orientation Class



Course Featurs



- 100+ Live classes
- 100+ programming contests (Topicwise marathon + codeforces speed contest)
- 1000+ Practice Problems (Video Solution will be given)
- 70+ Topics
- Industry-Specific Interview Guideline classes
- Problem Understanding and Code Debugging Help in Discord

- Guidelines and CF Profile Review
- CV Review
- 1 year of Live class (4 Years of course access and Guidelines)
- Topicwise marathon/long contest
- weekly codeforces speed contest
- Videos of each live class will be given
- Videos of the previous batch will be given
- The course is divided into 6 modules



Our Trainers





Sayeef Mahmud (RUET, CSE)

5th in ICPC West continent

finals, 2021 ICPC World Finalist, 2022

CF: thisIsMorningstar (max. master, 2183)



Adnan Zawad Toky (RUET, CSE)

5th in ICPC West continent finals, 2021 ICPC World Finalist, 2022

CF: adnan_toky (max. master, 2269)



Rakib Joy (CoU, CSE)

ICPC Dhaka Regional 2024, 4th Asia West Finalist, 2025

CF: RakibJoy (max. master, 2136)



Nafiul Islam (BUET, CSE)
5th in ICPC Preliminary 2022
4th BUET IUPC

CF: Ami_Nafi (max. candidate master, 2034)



UshanGhosh (SUST, CSE)

2 times ICPC Asia West Finalist (2021, 2022)

CF: UshanGhosh (max. master, 2108)



Sajjad Sadi (KUET, CSE)

3 Times ICPC Asia West Finalist

CF: Sadi_74 (max. candidate master, 1994)



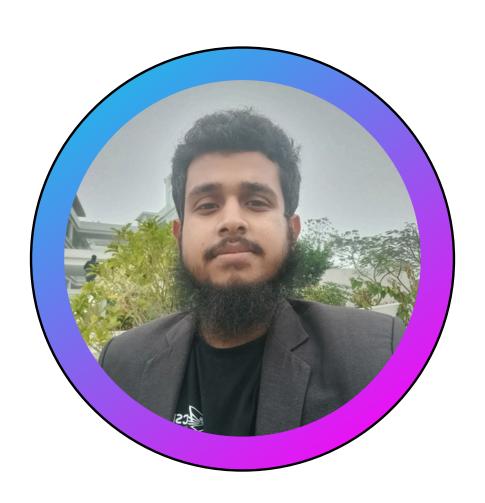
Regdwan Utshab (RUET, CSE)

8th, ACM-ICPC Dhaka Regional Contest 2024

CF: utshab1618 (max. candidate master, 1905)

Support System:

- Coding Problem Help
- Problem Understanding
- Code Debugging



Tahsin Arafat (JUST, CSE)



Ahsanul Haque (JUST, CSE)

CF: TahsinArafat (max. candidate master, 1957)

CF: _AhSaN_(max. expert, 1701)



Course Modules



1

Basic Programming and Problem-Solving Techniques

25 Live classes

12 Topics

300+ practice problems

10+ Topicwise marathon/long Programming Contest

3

Basic Algorithms And Data Structures

20 Live classes

16 Topics

200+ practice problems

8+ Topic marathon/long Programming Contest

5

Basic number theory

10 Live classes

8 Topics

100+ practice problems

5+ Topicwise marathon/long Programming Contest

2

C++ Standard Template Library

8 Live classes

10 Topics

100+ practice problems

3+ Topicwise marathon/long Programming Contest

4

Basic graph theory and dynamic programming

15 Live classes

12 Topics

100+ practice problems

5+ Topicwise marathon/long Programming Contest

6

Intermediate graph theory, Dynamic programming, and Segment tree

30 Live classes

12 Topics

200+ practice problems

10+ Topic marathon/long Programming Contest





Our Success



Our 115 students become codeforces Pupli



Our 5 students become codeforces Expert



Our 32 students become codeforces Specialist

17 Students BD Big Tech

1 Samsung 1 Kona SL

2 Pathao 1 Appify Labs

2 Welldev 1 BJIT

1 Selies TechnoNext 1

1 Viva soft

6 Brain station

Module-1: Basic Programming and Problem-Solving Techniques

Features

- 25 Live classes
- 12 Topics
- 300+ practice problems
- 10+ Topicwise marathon/long Programming Contest

- Basic I/O
- Datatypes, and
 Variables, Operations
- Conditions
- Loops
- Array
- String

- Functions
- Built-in Functions
- Converting to C++
- Complexity Analysis
- Brute Force
- Greedy
- Constructive
 Algorithms



Module-2: C++ STL video course

Features

- 8 Live classes
- 100+ practice problems
- 3+ Topicwise marathon/long Programming Contest

- Vector
- String
- Map
- Pair
- Set
- Multiset

- Queue
- Priority Queue
- Deque
- Programming Contest
 Template With
 Debugger



Module 3: Basic Algorithms And Data Structures

Features

- 20 Classes
- 16 Topics
- 200+ practice problems
- 8+ Topic
 marathon/long
 Programming Contest

- Recursion
- Basic Dynamic Programming
- Merge Sort
- Partial Sum
- Contribution Technique
- Binary Search
- Upper Bound
- Lower Bound,

- Integer Bisection
- Fractional Bisection
- Binary Search With Prefix Sum)
- Policy-Based Data
 Structure
- Sliding Windows
- Two-Pointer
- Structure and Structure
 Sorting



Module-4: Basic graph theory and dynamic programming

Features

- 15 Classes
- 12 Topics
- 100+ practice problems
- 5+ Topicwise marathon/long Programming Contest

- Graph, Tree
- Adjacency Matrix
- Adjacency List
- Depth-First Search (DFS)
- Breadth-First Search (BFS)
- The Shortest Path On The Unweighted Graph
- Bi-Coloring of Bipartite
 Graph

- Topological Sort
- Cycle Finding
- 0-1 Knapsack
- Coin Change
- DP Solution Print
- Shortest Path in Graph



Module-5: Basic number theory

>>>

Features

- 10 Classes
- 8 Topics
- 100+ practice problems
- 5+ Topicwise marathon/long Programming Contest

- Harmony Series
- Prime Generation
- Sieve of Eratosthenes
- Prime Factorization
- Number of Divisors
- The sum of Divisors

- Euler Phi Function
- Modular Arithmetic
- Fermat's Little Theorem

Module-6: Intermediate graph theory, Dynamic programming, and Segment tree

Features

- 30 Classes
- 12 Topics
- 200+ practice problems
- 10+ Topic
 marathon/long
 Programming Contest

- Dijkstra, Belman Ford
- Floyd Warshal
- Disjoint Set Union
- Minimum Spanning Tree
- Longest Common
 Subsequence
- Longest Increasing
 Subsequence in Both DP and Binary Search,

- Bitmask DP
- Digit DP
- Segment Tree
- Lazy Propagation
- Merge Sort Tree





Support system



01 Discord Server

Server: https://discord.gg/JmDaWV8cDk

Facebook Group

Group: https://www.facebook.com/groups/bd.cpsacademy

Facebook Page

https://www.facebook.com/bd.cpsacademy

Jajakumuallahu Khairan

THANK YOU