



**COACH ACADEMY**

Mohamed Abdel-Wahab

*Certificate of Completion*

**COMPETITIVE  
PROGRAMMING  
TRAINING**

**Abdelhady Mohamed**

**Level 2**

*Has attended Competitive Programming Training and learned STLs, Complete Search Iterative, Complete Search Recursive, Merge Sort, Quick Sort, greedy, Static Range Queries(frequency array, partial sum, prefix sum), binary search & two pointers, Modular Arithmetic & Binary Exponentiation & mod inverses using fermat little theorem, Primes & Factors(square root method), GCD, LCM, Sieve of Eratosthenes, Basics of Counting(Product Rule, Sum Rule,  $nCr$ ,  $nPr$ ), Graph Terminology and Representation, Graph Traversal Algorithms(DFS, BFS), Graph applications(Topological Sort, ...etc).*

**Mohamed Abel Wahab**  
Coach



**Hossam Youssef**  
CEO