

## **NGPC Problem Set Analysis**

### **Problem A:** Welcome to NGPC

Setter: Raihat Zaman Neloy

Alternate writer: Hasnain Heickel Jami, Bir Bahadur Khatri, Mesbah Tanvir

Solution sketch: print 5000

Attempt: 103

Solve: 103

### **Problem B:** GRE Exam

Setter: Hasnain Heickel Jami

Alternate writer: Nahian Ashraf

Solution sketch: AdHoc

Attempt: 99

Solve: 99

### **Problem C:** Sam the Newspaper Guy

Setter: Nabila Ahmed

Alternate writer: Mesbah Tanvir

Solution sketch: Geometry, Implementation

Attempt: 79

Solve: 34

### **Problem D:** Change of Apartment Again

Setter: Md. Shahadat Hossain Shahin

Alternate writer: Rafsan Jani

Solution sketch: Two pointer, Ternary search

Attempt: 21

Solve: 5

### **Problem E:** An Easy Geometry Problem Maybe!

Setter: Md. Shahadat Hossain Shahin

Alternate writer: Imran Bin Azad

Solution sketch: Easy Euclidean Geometry

Attempt: 25

Solve: 4

### **Problem F:** NGDC Teams

Setter: Tarango Khan

Alternate writer: Raihat Zaman Neloy

Solution sketch: Implementation of STL / Union-find / Data structure

Attempt: 6

Solve: 1

**Problem G: Full Binary Tree**

Setter: Bir Bahadur Khatri

Alternate writer: Raihat Zaman Nelay

Solution sketch: Implementation / Dfs

Attempt: 23

Solve: 5

**Problem H: Shahin and his Twin Children**

Setter: Mesbah Tanvir

Alternate writer: Mahbubur Rahman

Solution sketch: Observation, implementation of STL, Data structure

Attempt: 2

Solve: 0

**Problem I: Ugly Function**

Setter: Mahbubur Rahman

Alternate writer: Nabila Ahmed

Solution sketch: Differentiation mathematics

Attempt: 1

Solve: 0

**Problem J: Prime Digits**

Setter: Tarango Khan

Alternate writer: Bir Bahadur Khatri

Solution sketch: Pre-calculation + backtracking + combinatorics

Attempt: 4

Solve: 0