

Solution: [Problem Title] ([Problem ID])

ANNAFORCES

Problem Description

[Brief one-sentence description of the problem.]

Simple Answer

[A one-paragraph, high-level overview of the solution approach.]

Detailed Explanation

Approach

[Explain the algorithm and data structures used in detail. You can use bullet points or numbered lists to break down the steps.]

1. **Step 1:** ...
2. **Step 2:** ...
3. **Step 3:** ...

Constraints and Data Types

[Discuss any important constraints and how they affect the choice of data types (e.g., using ‘long long’ for large numbers).]

Complexity

- **Time Complexity:** [Analyze the time complexity of your solution (e.g., $O(N)$, $O(N \log N)$).]
- **Space Complexity:** [Analyze the space complexity of your solution (e.g., $O(1)$, $O(N)$).]

Language-Specific Implementations

Python (solution.py)

```
1 # Your Python solution code here
```

C++ (solution.cpp)

```
1 // Your C++ solution code here
```

C (solution.c)

```
1 /* Your C solution code here */
```

Notes and Verification

[Add any notes about the solution or verification of sample cases.]